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# UTILIZATION OF AGRO-ECOLOGICAL ZONES DATABASE AND INSTALLATION OF GIS FOR AGRICULTURAL DEVELOPMENT

BGD/95/006 GIS at BARC

GIS-

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**DR. SHAMSUL ALAM**  
End of Assignment Report  
Socio-Economic Specialist

April, 2001



BANGLADESH AGRICULTURAL RESEARCH COUNCIL  
FARMGATE, DHAKA

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# End of Assignment Report

## 1. Duration of Assignment of Socio-Economic Specialist and other Consultancy Services.

Both bio-physical and socio-economic data generation/collection technical services in the GIS project were provided by the professional consultants in the respective field. The position of Socio-Economist in the GIS Project at BARC was for 36 person months. The approved project period has been January 1994 to June 2001 (with fresh approval of start date from 1 July 1996) when all the stipulated consultancy services were completed. The project became functional only on 1 July 1996, and this is the start date recognized by GOB/UNDP. In the Project there were provisions for Land Resources Specialist (36 person months), Farming System Specialist (24 person months) and System Analyst/Programmer (45 person months) in addition to the Socio-Economist. Provision for expatriate consultancy (53 person months) was also there in the project. Objectives of GIS project are discussed in detail in TAPP/Prodoc.

## 2. Socio-Economic Data and the GIS.

The GIS Project has envisaged several important objectives to fulfill of which the main objective was to transfer the results obtained by the Land Resources Appraisal Project (Agro-Ecological Zones) to agricultural researchers, extension personnel, development planners and scientists at national, regional, district and upazila levels in order to draw action program for agricultural development planning.

The specific objectives of GIS project were :

- Sensitize people at the planning and decision making process about the importance of AEZ/GIS as a planning tool.
- Develop manpower on the AEZ/GIS system use and applications.
- Utilize the AEZ/GIS database for crop production, crop diversification and disaster preparedness programme planning.
- Strengthen efforts of the agricultural extension services to develop location specific technology packages through the establishment of an effective interface with the users.
- Incorporate Socio-economic parameters in the AEZ/GIS database; and
- Field Validation of the system's output and prepare optimal scenarios for land use planning at national, district and upazila levels.

The GIS project document (TAPP/ProDoc.) viewed socio-economic data in respect of technology generation/transfer and adoption by the users which would be limited and ineffective if farmers' Socio-economic situation was not considered and therefore the project made a provision of a local consultant (Socio-Economic Specialist) to perform among others,

i) prepare a format and database in the computer incorporating socio-economic factors, ii) develop a methodology for incorporating database in GIS environment and iii) run pilot tests in the field for the socio-economic parameters in conjunction with others developed for each land utilization types.

### **3. Joining of the present Socio-Economic Specialist in the GIS/BARC Project.**

Dr. Mujibur Rahman first joined in the project as Socio-Economic Specialist on 1-12-1997 and after working for 5 months left the project on 30<sup>th</sup> April 1998. After couple of months, Dr M.A Sattar Mandal joined the position on 09-08-1998 and after working for 16 months 23 days, Dr. Mandal left the job and was succeeded by the present Socio-Economist on 1<sup>st</sup> March 2000. So, there was no-continuance of working in this position and got interrupted twice for recruiting a new specialist every time.

### **4. Terms of Reference:**

The major duties and responsibilities as specified in the Employment Contract of the Socio-economic Specialist were as follows :

- Prepare data sets required for incorporation into the AEZ database and GIS including gender issue and FSR data.
- Coordinate ARMP/GIS Project for collection of socio-economic data of the AERS Division in collaboration with them.
- Collect socio-economic data, generate data for the country, check and refine them for multi-criteria model use
- Help integrate socio-economic factors with AEZ land suitability assessment models for GIS based land information system development
- Prepare data sets for Multi criteria Model Analysis (MCMA) and working in close cooperation with the expatriate MCMA/Socio-Economic Specialist.
- Prepare training materials, manuals and conduct training courses for technology transfer/GIS application.
- Carryout sample ground truthing on land and land suitability assessment updated by incorporation of socio-economic parameters.
- Make travels in different parts of the country as and when required for field validation of data.
- Submit quarterly reports and end of assignment report to the NPD (National Project Director).

### **5. Major Tasks Completed by the Socio-Economic Specialists :**

- The incumbent Socio-Economic Specialist (SES) joined the GIS Project on 1<sup>st</sup> March, 2000, firstly for a period of six-months from March to August 2000. The appointment has been extended for another period of six months from



September 2000 to February 2001 with subsequent extension for a period of 2 months (March 2000-April 2001) covering a total period of 14 months.

- The first SES (Dr. Mujibur Rahman) after having briefing about the GIS Project requirements from the NPD, colleagues and perusal of project documents (in terms of socio-economic parameters) came to the conclusion that the socio-economic data need to be necessarily upazila based and must encompass those influence (favourably or unfavourably) the farmers production decision. Location specific forecast would require micro level data which were not however available in a single or several documents (Monthly Report of Activities of December 1997 by Dr. Mujibur Rahman).
- The first SES tentatively selected some socio-economic parameters, information on which to be collected were land area, cropped area, farm population (male and female), no. of households, no. of farm households, no. of farmers by category of farms (small, marginal or large). Cost and return, input profile and inventory of seeds, fertilizers, irrigation water, credit, marketing and storage facilities, transport and communication facilities, agro-processing facilities price fluctuation and other socio economic constraints affecting adoption of new technology.
- The first SES wrote a note on the methodology of incorporating the socio-economic data. The SES stressed the need for collecting upazila based data specially by using the data of Agricultural Census Report of 1996. He also suggested several sources of secondary data at national level other than the BBS.
- Dr. Mujibur Rahman prepared an working paper entitled "Incorporation of Socio-Economic Factors in the AEZ/GIS Database having Influence on Agricultural Production and Adaptation of Modern Technology in Farming" wherein he delineated some of relevant socio-economic parameters and provide the rationale/justifications for their incorporation into the GIS indicating the main data sources, the probable constraints in the collection of data and their collection methods'. After 5 months of joining Dr. Rahman resigned from the job (position remained vacant until 8th August, 1998 in the process of filling the position by a new SES).
- Dr. M.A. Sattar Mandal joined as SES on 9<sup>th</sup> August, 1998 and served until 31 December, 1999 (served 16 months 23 days) and then left the job.

**Dr. Mandal completed the following tasks :**

- i) Prepared several lecture notes in connection with GIS training programs.
- ii) Convened meeting (Expert Consultation Meeting) to discuss about identification of important Socio-Economic Parameters that should be included for incorporation into GIS database to be prepared. Decided proposed socio-economic database at Upazila level.
- iii) Developed contact research proposal (under ARMP funding) for collection of socio-economic data for the GIS project. Assigned four Teams the task of data collection from 200 upazilas of Bangladesh. ARMP allocated Tk. 37 lacs for 4 teams.

- iv) Designed draft questionnaire for socio-economic data collection and an Input-output data collection format.
- v) Collected data on landuse information, farm holding types, crop production and inputs uses Thana-wise for Tangail district (in connection with fitting MCMA model). Lecture Notes prepared in connection with GIS Training Programs :

## **6. Major Tasks performed by the present SES**

I joined the GIS Project on 1<sup>st</sup> March 2000 as SES (January-February months elapsed in the process of filling the position) and performed for remaining 14 man-months for the Socio-Economist position. The major jobs performed as per work-plans are highlighted below (detailed out in the quarterly reports) :

### **A. First quarterly (March 2000 & April to June 2000) jobs performed (workplan attached to the Quarterly Report)**

- \* Have acquainted with the relevant project documents and perused papers of the previous SESs.
- \* Finalised the questionnaire for Socio-economic data collection and the schedule for Cost and Return data of important crops grown in each Upazila.
- \* Prepared a brief paper on "Aspects of Land Degradation and its Socio-Economic Consequences" based on GIS information.
- \* Reviewed the status of the Upazila level data collected from Tangail district (data collected by the previous SES) in connection with filling MCMA Model. gathered and prepared some additional data sets relevant to MCMA validation. Also prepared input-output data sets from survey questionnaire and provided socio-economic inputs to the Expatriate socio-economic consultant (see Expatriate Consultant's Report).
- \* Participated in training program on application of GIS in Agricultural planning as a trainer on the topics
  - i) The logic and rationale for incorporation of socio-economic data in the AEZ/GIS System
  - ii) The identification and determination of socio-economic data for GIS with sources. (The outlines appended with the quarterly Report)

### **B. Second quarterly (July to September 2000) jobs performed (workplan is available in the quarterly report) :**

- \* Kept close liaison with PIs of the ARMP project (for GIS socio-economic data collection) in terms of monitoring progress, discussing the problems faced in data collection and provided advices to overcome data collection problems.

Attended a joint meeting of the PIs at Bangladesh Agricultural University at Mymensingh on 22-23 June, 2000.

- \* Prepared policy papers at the direction of NPD entitled. i) Technology Adoption and Transfer in Bangladesh Agriculture : Some Socio Economic



Aspects". ii) Proposed Interventions for Economically vulnerable Areas of Northern Bangladesh (attached to the Quarterly Report)

- \* At the behest of Chairman, BARC prepared, i) A Socio Economic Tabular Profile for Madaripur district showing demographic situation, farm population, livestock and fishery resources of the district", ii) A conceptual paper entitled, "Optimising Conditions for Resource use in Farm Production Activities." iii) A note on data sets relating to change in rural land use, change in cropped area, rice area and production according to seasons and extent of damages by floods in 1998/99.
- \* Collected the number of fertiliser dealers according to district and upazilas in Bangladesh during 1999-2000 and month-wise allotment of urea fertilizer from July 2000 to June 2001 (see Quarterly Report).

**C. Major tasks performed during 3<sup>rd</sup> Quarter (October to December 2000) (Work-plan is available in the Quarterly Report) :**

Several field visits (also accompanied by the NPD) were made for checking /verifying filled-in questionnaires collected by ARMP/GIS projects. Upazilas covered during validation field visits were Manikgong, Satoria, Bhaluka, Trishal, Mymensingh Sadar, Muktagacha, Guripur, Daundkandi, Chandina and Comilla Sadar.

Data inconsistencies and inaccuracies were detected in the questionnaires and reported to the respective PIs through AERS Division for corrections and taking pre-cautions before filling in new questionnaires. To apprise the experiences of the field visits, meetings also were held with the PIs.

- \* Prepared a detailed Report on "Impact of Vulnerability in Agriculture According to Agro-ecological Zones and Policy Options: What GIS Can do?"
- \* Prepared a Summary Table based on the above entitled, "Vulnerabilities by Agroecological Zones and Needed Technologies Mitigating Vulnerabilities" (Vulnerabilities indicated are based on GIS biophysical data and mapping). This was sent to DG, DAE for comments before finalisation. DG's comments and our response are attached (Appendix-A).
- \* Reports were prepared giving specific comments related to the validity and reliability of the collected data through ARMP for GIS Socio-economic data. First of such series reports was :

Some observations on the Upazila level Socio-economic data collected through ARMP for GIS Project (by BRRI Team).

- \* Prepared some data sets on Rice Area, production by seasons in Bangladesh for project Management.

**D. Major tasks performed During 4<sup>th</sup> Quarter (January-March 2001 and April 2001) :**

- \* Participated in a Two-week Training on AEZ/GIS Database Management and its Application in Agriculture as Trainer. Lecture topics were :
  - i) Socio-economic Factors in Agricultural production system ii) Socio-economic Database at BARC-GIS (data stock indicated and the importance of data items discussed).

- ii) Participated meetings (convened by the NPD) with the PIs of the ARMP/GIS project to discuss Report prepared by the SES on data discrepancies and large divergences of the collected Upazila information. The SES indicated specific interventions and areas where corrections needed (see ToR, p.4)
- \* In assessing data reliability and validity (of the partially received data sets of 100 Upazilas out of 200 Upazilas in March 2000 from the ARMP/GIS Socio-economic Project' see the List of Upazilas (Appendix-B) of the received data sets, following review Reports were prepared by the SES and circulated to Member Director (AERS Division), National Project Director, PIs of the ARMP/GIS projects for taking necessary actions on the part of each. The data assessing reports were :
  - i) "Analysis of Trends of Socio-Economic Changes in selected Upazilas of Bangladesh using ARMP/GIS data".
  - ii) "Changes in Land use pattern in Bangladesh by Upazila between two Agricultural Census period."
  - iii) " Changes in Land use pattern and Share of Individual Crop to total cropped area with Reference to Important Crops in Bangladesh" (these papers are annexed to the Quarterly Report) and were done as an exercise for validation tests of collected data.

In these analytical papers, extreme values, suspected information, inaccuracies and mendacious entries were identified relating to findings of other micro-studies, national/district averages quoted by the BBS and studies by other NARS and Research Institutes.

- \* Complete data sets for 200 Upazilas was received by the GIS project on 29<sup>th</sup> April, 2001, initially which were supposed to be received by December 2000.
- \* In the process of assessing validity and reliability-two reports were prepared on the basis of available data sets in April. Data discrepancies in terms of individual area to total cropped area and yield were identified in the paper. These were :
  - i) Share of Minor Crops to Total Cropped Area and Yield per hectare at Upazila Level. (Article appended-Appendix-C)
  - ii) A Glimpse on Benefit Cost Ratios of Selected Crops in 1998/99 Growing in Different Upazilas (Appendix D).
  - iii) Tables on Yield of Important Major and Minor Crops were prepared (Appendix-E)
- \* Data readability, entry conformity, consistency among four data collecting Teams were verified with the help of System Analyst of the GIS Project during the month of April. (see also the proceeding of the last review meeting with the PIs- Appendix-F).
- \* From the input-output data sets of the 200 Upazilas, coefficients were used to estimate returns relative to costs (expressed in B/C ratios of each crop. Total costs of all inputs used (inputs wise) for crop productions were derived upazila-wise and can be used in future for estimating linear input demand function for a crop to be used in any upazila wise MCMA exercise for land



use planning with other components of MCMA model fitting (see ToR). Relevant socio-economic data are available now available in the GIS Project of BARC (200 upazilas) which can be used in Mult-Criteria Model Analysis, but before that in several instance data cleansing, revisions should have to be completed by the data collection Teams (ARMP/GIS Project) as were pinpointed by the SES in different application-paper outputs. However, thorough investigation of pieces of many information items (e.g. livestock population, upazila infrastructures etc.) could not be made due to late submission of data sets.

- \* Participated in occasional meetings convened by the NPD in assessing progress of work time to time (16 such meetings).

## 7. Some Problems in Conceptualization, Acquiring and Integration of Socio-economic Data sets in GIS Environment

- \* Recruitment of Socio-Economic Specialist (involving three Specialists) interrupted conceptualization of the process of data identification, instrumentalities in the collection of data, smooth and continuous progress of work.
- \* Although primary data collection is not the purpose/basis of this project development, however, it was felt that, in the project Document (TAPP) resources allocation for the socio-economic component should have been more initially covering field data collection expenses. Socio-economic data collection through survey method from diverse areas is a huge task requiring sufficient fund allocation.
- \* Data collected through ARMP/GIS Socio-Project activities, were delivered to the GIS project very lately, (3<sup>rd</sup> week of April 2001 reasons could be so many for the assigned teams) by the collecting Teams just prior to end of the last SES's job period. Even NPDs earnest endeavour to effect timely submission of the data-sets by the collecting Teams was of no avail. One of the reasons for this could be control and supervision of Teams vested (AERS Division) elsewhere other than the GIS. Further designing of any such project should take into consideration these points to avoid a feeling of alienation by the recruited professionals and for receiving prompt/more efficient services.

## 8. Recommendations for Improvement of the Data Management and Use.

- \* Availability of Socio-economic Data by the Upazilas at national level should be considered utmost important for bottom-up agricultural development planning, for efficient uses of resources and analyzing growth trends. The list of Upazilas for which data are available is provided in Appendix-B.
- \* Out of 486 Upazilas, data are only available for 200 Upazilas which though representative of different Agro-Ecological Zones but must be completed for wholesome view of the country. As a public property, user may demand any numbers of Upazilas, from anywhere in the country, so the data sets must be whole some completed for all the Upazilas and also having a segregated/view of the country whenever needed.

- \* Socio-economic parameters are always changing as the society progresses. Therefore, the concept of data is not anything of a static view. Data must be upgraded to keep them relevant and useful. Adequate fund provisions should be there to make the relevant data sets upto-date. There should be provisions for service charges from the users at least to cover-up operational expenses and efficient uses of resources.
- \* Digitized mapping with important Socio-economic attributes (say, the extent of landlessness by upazila, land tenancy map, intensity of livestock population etc.) should be done with the data sets received as has been done with the bio-physical data. This maps could be very useful for first-hand quick visual viewing of an upazila socio-economic characteristics.
- \* All deviations, extreme values, suspect figures as pointed out by the last SES while reviewing data accuracies and validity must be ensured that have been corrected/revised accordingly for reliable use of data sets.

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## Comments of DAE on the Paper "Vulnerability in Agriculture : Development opportunities and policy Options".

No doubt a laborious, time-consuming and brain-storming effort was made by the concerned scientists in compilation and edition of facts and findings on AEZ based. "Vulnerability in Agriculture : Development opportunities and policy Options". Vulnerabilities of the AEZs have been identified as socio-economic and Bio-physical constraints. Bio-physical constraints in location specific areas and in general are identified usually as:

### 1. Edaphic

- (a) Degrading soil fertility
- (b) Erosion
- (c) Sedimentation
- (d) Nutrient imbalance
- (e) Salinity-both natural and man made
- (f) Water holding capacity of soils.

### 2. Agro-climatic

- (a) Flood-prone areas
- (b) Drought prone areas
- (c) Low rainfall areas
- (d) Low land areas
- (e) Stagnation
- (f) Poor drainage in location specific areas

### 3. Weak technological Interventions.

- (a) Cropping patterns
- (b) Variety, short duration, drought resistant etc suitable to local needs.
- (c) Biotechnologies like IPM, Organic manuring, seed production & storage, etc.

### 4. Agro-processing and Marketing

- (a) Identification and promotion of production of demand driven fruits, vegetables and other crops for domestic and foreign markets.
- (b) Technological and logistical support for processing, canning and marketing.

### 5. Technologies promoting Organic farming and Farmers' Innovations.

- (a) Technologies for organic farming of crops, specially fruits and Vegetables.
- (b) Identification and promotion of farmers' innovations.
- (c) Development of low cost technologies.

One or more than one of the problems does/do exist in location specific areas of each AEZ. The report also shows that such problems have been identified in many cases. But what we strongly feel, are lackings of specific, appropriate and updated recommendations to adress the problems. Rather the measures and recommendations made are general, indicative, suggestive and long time policy driven. We think that, instead of prescribing a long list of remedial measures for each AEZ, a few action oriented recommendations to create break through, will be more useful.



**Response to Comments of Director General on the GIS Report, “Vulnerabilities in Agriculture: Development Opportunities and Policy Options”.**

- ✧ The categorical and thoughtful comments of DG on the report are acknowledged thankfully (copy of comments appended).
- ✧ A wide range of bio-physical vulnerabilities and socio-economic constraints are indicated in the report according to agro-ecological zones.
- ✧ ‘A long list of remedial measures’ (2 to 4 specific remedial suggestions were made for each AEZ case) for each AEZ appears, because sometimes, some of the problems do overlap between contiguous zones and therefore suggestions often repeated for each AEZ which influenced making list ‘long’ (not exceeding 4 recommendations).
- ✧ Bio-physical and socio-economic constraints have multi-pronged dimensions and effects and need to be tackled in several plausible ways. At each upazila, development and implementing agencies are many. If every one can have a role in ameliorating Vulnerabilities – a very limited or single suggestive measure may not suit all or create opportunity for all to work.
- ✧ Socio-economic constraints are diverse and very often need a longer course of actions to have ameliorating effects because these involve humans who require longer time to be changed.
- ✧ For a few action oriented recommendations having break-through impact also often would require (say introduction of hybrid rice for high production return) time consuming intensive institutional research for development and adaptability.
- ✧ Development institutions may choose suitable suggestions (one or two from the list) to emphasize intensive work within their reach.

GIS Project at BARC.

**SOCIO-ECONOMIC DATA COLLECTION**  
**THANA LIST : BAU Team-1**

| Sl. No. | District Name | Thana Name                             | Thana Code                 |
|---------|---------------|--|----------------------------|
| 1       | Mymensingh    | Sadar, Gouripur, Haluaghat             | 36152, 36123, 36124        |
| 2       | Jamalpur      | Sadar, Sharisabari, Islampur, Melandah | 33936, 33985, 33929, 33961 |
| 3       | Sherpur       | Sadar, Jhenaigati                      | 38988, 38937               |
| 4       | Kishoreganj   | Hossainpur, Austagram                  | 34827, 34802               |
| 5       | Chandpur      | Sadar, Matlab, Shahrajti               | 21322, 21376, 21395        |
| 6       | Feni          | Chhagalnaya                            | 23014                      |
| 7       | Noakhali      | Hatia, Senbag                          | 27536, 27580               |
| 8       | Laxmipur      | Sadar                                  | 25143                      |
| 9       | Faridpur      | Sadar, Boalmari, Sadarpur              | 32947, 32918, 32984        |
| 10      | Sariatpur     | Naria, Palong                          | 38665, 38669               |
| 11      | Gopalganj     | Mukshedpur                             | 33558                      |
| 12      | Magura        | Sadar, Shalika                         | 45557, 45585               |
| 13      | Chuadanga     | Sadar, Alamdanga                       | 41823, 41807               |
| 14      | Meherpur      | Gangni                                 | 45747                      |
| 15      | Bogra         | Sadar, Gabtali                         | 51020, 51040               |
| 16      | Munshiganj    | Srinagar                               | 35984                      |
| 17      | Norshingdi    | Raipura                                | 36864                      |
| 18      | Pirojpur      | Sadar, Sharupkati                      | 17980, 17987               |
| 19      | Barguna       | Sadar, Patharghata                     | 10428, 10485               |
| 20      | Joypurhat     | Sadar                                  | 53847                      |
| 21      | Sunamgonj     | Sadar, Bishwambarpur, Jaganathpur      | 69089, 69018, 69047        |
| 22      | Khagrachhari  | Sadar                                  | 24649                      |
| 23      | Satkhira      | Sadar, Debhata                         | 48782, 48725               |
| 24      | Rangamati     | Kaptai, Rajasthali                     | 28436, 28478               |
| 25      | Cox's Bazar   | Chokoria                               | 22216                      |
| 26      | Chittagong    | Anowara, Hathazari, Patia, Rangunia    | 21504, 21537, 21561, 21570 |

Total = 51

Kasheer

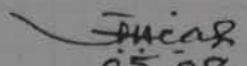
5/8/2000



Bureau of Socioeconomic Research and Training  
Bangladesh Agricultural University, Mymensingh  
Coordinated Project on Generation of GIS-based Socioeconomic Data

**Work Schedule for Data Collection in the Selected Thanas of the BAU Team-II**

| Time schedule | Name of districts | Total thanas | Name of thanas  |
|---------------|-------------------|--------------|---|
|               | 1. Mymensingh     | 03           | 1. Bhaluka, 2. Muktagachha, 3. Trishal  |
|               | 2. Tangail        | 11           | 1. Basail, 2. Tangail, 3. Delduar, 4. Mirzapur, 5. Sakhipur, 6. Nagarpur, 7. Bhuapur, 8. Ghatail, 9. Gopalpur, 10. Kalihati, 11. Madhupur |
|               | 3. Sherpur        | 01           | 1. Nakla  |
|               | 4. Kishoreganj    | 02           | 1. Sadar, 2. Karimganj  |
|               | 5. Dhaka          | 01           | 1. Savar  |
|               | 6. Rajbari        | 02           | 1. Baliakandi, 2. Gualanda  |
|               | 7. Magura         | 01           | 1. Mohammadpur  |
|               | 8. Chuadanga      | 02           | 1. Damurhuda, 2. Jibannagar   |
|               | 9. Meherpur       | 01           | 1. Sadar  |
|               | 10. Narail        | 01           | 1. Lohagara   |
|               | 11. Satkhira      | 01           | 1. Kalaroa  |
|               | 12. Madaripur     | 02           | 1. Sadar, 2. Rajoir   |
|               | 13. Patuakhali    | 03           | 1. Sadar, 2. Kalapara, 3. Bauphal   |
|               | 14. Barguna       | 01           | 1. Amtali   |
|               | 15. Bogra         | 03           | 1. Nandigram, 2. Shariakandi, 3. Shibganj   |
|               | 16. Joypurhat     | 02           | 1. Kalai, 2. Panchbibi  |
|               | 17. Munshiganj    | 01           | 1. Sadar  |
|               | 18. Narshingdi    | 02           | 1. Monohardi, 2. Sibpur   |
|               | 19. Narayanganj   | 01           | 1. Sonargaon  |
|               | 20. Chandpur      | 01           | 1. Shahrasti  |
|               | 21. Feni          | 02           | 1. Sadar, 2. Parshuram  |
|               | 22. Laxmipur      | 02           | 1. Raipur, 2. Rangati   |
|               | 23. Noakhali      | 01           | 1. Begumganj  |
|               | 24. Chittagong    | 01           | 1. Sitakunda  |
|               | 25. Cox's Bazar   | 01           | 1. Kutubdia   |
|               | 26. Bandarban     | 01           | 1. Sadar  |
|               | 27. Rangamati     | 01           | 1. Sadar  |
| Total         | 27 districts      | 51 thanas    | -   |

  
 05.08.2000  
 Tofazzal Hossain Miah  
 Professor & PI  
 Department of Agricultural Economics  
 Bangladesh Agricultural University  
 Mymensingh 2202, Bangladesh  
 Phone: Off: 091-55113, 091-55695-97/2686  
 Res: 091-53362  
 Fax: 091-55810

SOCIO-ECONOMIC DATA COLLECTION (THANA LIST) FOR GIS PROJECT.  
AGRI. ECONOMICS DIVISION  
BRRI, GAZIPUR-1701

| SL. No. | DISTRICT NAME | THANA NAME            |
|---------|---------------|-----------------------|
| 1       | BARISHAL      | Agailjhara ✓          |
| 2       | BARISHAL      | Barisal ✓             |
| 3       | BARISHAL      | Gournadi              |
| 4       | BARISHAL      | Mehendiganj           |
| 5       | BHOLA         | Bhola                 |
| 6       | BHOLA         | Borhanuddin           |
| 7       | COX'S BAZAR   | Cox's Bazar           |
| 8       | DHAKA         | Keranigonj *          |
| 9       | DINAJPUR      | Biral                 |
| 10      | DINAJPUR      | Bochagonj             |
| 11      | DINAJPUR      | Chiribander           |
| 12      | DINAJPUR      | Dinajpur              |
| 13      | DINAJPUR      | Kaharol               |
| 14      | GAIBANDHA     | Gaibandha             |
| 15      | GAIBANDHA     | Gobindaganj           |
| 16      | GAIBANDHA     | Palashbari            |
| 17      | HABIGONJ      | Baniachong            |
| 18      | HABIGONJ      | Habigonj              |
| 19      | HABIGONJ      | Madhabpur             |
| 20      | KURIGRAM      | Nageshwari            |
| 21      | KURIGRAM      | Rajibpur ( Dhusmara ) |
| 22      | LALMANIRHAT   | Aditmari              |
| 23      | LALMANIRHAT   | Kaliganj              |
| 24      | LALMANIRHAT   | Lalmanirhat           |
| 25      | MANIKGANJ     | Dautlatpur            |
| 26      | MANIKGANJ     | Manikganj             |
| 27      | MANIKGANJ     | Saturia               |
| 28      | MANIKGANJ     | Singair               |
| 29      | MOULAVIBAZAR  | Rajnagar              |
| 30      | NAOGAON       | Manda                 |
| 31      | NAOGAON       | Naogaon               |
| 32      | NAOGAON       | Porsha                |
| 33      | NATORE        | Natore                |
| 34      | NILPHAMARI    | Kishorgonj            |
| 35      | NILPHAMARI    | Saidpur               |
| 36      | PANCHAGARH    | Atwari                |
| 37      | PANCHAGARH    | Boda                  |
| 38      | PANCHAGARH    | Dedigonj              |
| 39      | RAJSHAH       | Charghat              |
| 40      | RAJSHAH       | Godagari              |
| 41      | RAJSHAH       | Mohanpur              |
| 42      | RANGPUR       | Mithapukur            |
| 43      | RANGPUR       | Pirgachha             |
| 44      | RANGPUR       | Rangpur               |
| 45      | SYLHET        | Balagonj              |
| 46      | SYLHET        | Bishawnath            |
| 47      | THAKURGAON    | Balindangi            |
| 48      | THAKURGAON    | Haripur               |
| 49      | THAKURGAON    | Ranisonkali ✓         |
| 50      | THAKURGAON    | Thakurgaon ✓          |

Total = 50

Principal Investigator  
GIS Project  
BRRI, Gazipur-1701



# List of Thanas and Work in Progress/CDPR

| Sl. No. | District     | Thana         | Code  | Completed | Expected Date of Completion | Remarks          |
|---------|--------------|---------------|-------|-----------|-----------------------------|------------------|
| 1       | BAGERHAT     | Bagerhat ✓    | 40108 |           | Oct. 15, '00                |                  |
| 2       | BAGERHAT     | Mollahat ✓    | 40156 |           | "                           |                  |
| 3       | BAGERHAT     | Rangpur       | 40173 |           | "                           |                  |
| 4       | BAGERHAT     | Sarakkholā    | 40177 |           | "                           |                  |
| 5       | BRAHMANBARIA | Akhaura       | 21202 | ✓         |                             |                  |
| 6       | BRAHMANBARIA | Brakumabaria  | 21213 | ✓         |                             |                  |
| 7       | BRAHMANBARIA | Kashiba       | 21263 | ✓         |                             |                  |
| 8       | BRAHMANBARIA | Nasirganj     | 21290 | ✓         |                             |                  |
| 9       | BRAHMANBARIA | Shamail       | 21294 | ✓         |                             |                  |
| 10      | CHITAPURHAT  | Nachol        | 57056 | ✓         |                             |                  |
| 11      | CHITAPURHAT  | Nawalganj     | 57066 | ✓         |                             |                  |
| 12      | CHITAPURHAT  | Shibganj      | 57088 | ✓         |                             |                  |
| 13      | COXBILLI     | Ramra         | 21009 | ✓         |                             |                  |
| 14      | COXBILLI     | Chandina      | 21927 | ✓         |                             |                  |
| 15      | COXBILLI     | Comilla       | 21967 | ✓         |                             |                  |
| 16      | COXBILLI     | Dumkandi      | 21936 | ✓         |                             |                  |
| 17      | COXBILLI     | Muadimgar     | 21981 | ✓         |                             |                  |
| 18      | COXS BAZAR   | Ramu          | 22266 | ✓         |                             |                  |
| 19      | JESSORE      | Rangpur       | 44109 |           | Aug. 15, '00                |                  |
| 20      | JESSORE      | Jessore       | 44117 | ✓         |                             |                  |
| 21      | JESSORE      | Keshabpur     | 44133 | ✓         |                             |                  |
| 22      | JHALAKATHI   | Jhalakathi    | 44240 | ✓         |                             |                  |
| 23      | JHALAKATHI   | Kamthalia     | 44243 | ✓         |                             | Except bank data |
| 24      | JHENAIKALI   | Huamail       | 44114 |           | Aug. 15, '00                |                  |
| 25      | JHENAIKALI   | Jhenaidaha    | 44119 |           | "                           |                  |
| 26      | JHENAIKALI   | Maheshpur     | 44171 |           | "                           |                  |
| 27      | KHULNA       | Batjaghat     | 44712 |           | Oct. 15, '00                |                  |
| 28      | KHULNA       | Dumuria       | 44730 | ✓         |                             | Except bank data |
| 29      | KHULNA       | Paikgachhi    | 44764 | ✓         |                             |                  |
| 30      | KHULNA       | Terekhata     | 44794 |           | Oct. 15, '00                |                  |
| 31      | KUSHTIA      | Bhetanura     | 45015 |           | Sep. 15, '00                |                  |
| 32      | KUSHTIA      | Daulatpur     | 45039 |           | "                           |                  |
| 33      | KUSHTIA      | Kushia ✓      | 45079 |           | "                           |                  |
| 34      | KUSHTIA      | Mirpur        | 45094 |           | "                           |                  |
| 35      | MOULVIBAZAR  | Kamalganj ✓   | 65856 |           | Aug. 31, '00                |                  |
| 36      | MOULVIBAZAR  | Moulvibazar ✓ | 65874 |           | "                           |                  |
| 37      | NETRAKONA    | Barhatta      | 37209 |           | Sep. 30, '00                |                  |
| 38      | NETRAKONA    | Durgam        | 37218 |           | "                           |                  |
| 39      | NETRAKONA    | Kendua        | 37217 |           | "                           |                  |
| 40      | NETRAKONA    | Purbaddipda   | 37283 |           | "                           |                  |
| 41      | PABNA        | Bera          | 57616 |           | Aug. 31, '00                |                  |
| 42      | PABNA        | Islamnail     | 57639 |           | "                           |                  |
| 43      | PABNA        | Buthia        | 57672 |           | "                           |                  |
| 44      | PABNA        | Sujmaganj     | 57683 |           | "                           |                  |
| 45      | SIRAJGARH    | Belkuchi      | 58811 |           | "                           |                  |
| 46      | SIRAJGARH    | Kazipur       | 58850 |           | "                           |                  |
| 47      | SIRAJGARH    | Shibganj      | 58867 |           | "                           |                  |
| 48      | SIRAJGARH    | Ullapuri      | 58921 |           | "                           |                  |
| 49      | SYLHET       | Golapganj     | 69128 |           | Oct. 15, '00                |                  |
| 50      | SYLHET       | Zakiganj ✓    | 69191 |           | "                           |                  |

\* Complete except the data relating to Agricultural Census 1996 conducted by BBS.

Total = 50



## Share of Minor Crops to Total Cropped Area and Yield per hectare at Upazila Level

Dr. Shamsul Alam  
Socio-Economic Specialist  
GIS Project at BARC

Area and yield data of the crops grown at Upazila level have been reported for consecutive three years as 1996/97, 1997/98 and 1998/99. During the first phase data have been received for 100 Upazilas from the four data collecting Teams out of 200 to be finally submitted. Area and yield discrepancies as observed between Teams and abnormal divergences with the national average and between years have been reported earlier for the major cereal crops, crops, fibre, vegetables and fruits. This time, data on area and yield of major pulses, oil crops, sweet potato, tobacco and maize have been discussed. Some more crops could not be covered as data were not received from some of the Teams for some crops. The aim of this report is to assess data variations between years/between Teams and deviations from the national average to identify extreme variations that may lead to suspect validity of the figures. Eight important minor crops have been under investigation for this report.

### 1. Area and Yield of Kheshari

Among pulses Kheshari coverage in terms of area is the highest (covered 1.66% of total cropped area in Bangladesh in 1996/97 followed by lentil 1.50%). Yield per hectare in 1996/97 has been 0.78 tonne.

Team Findings at Upazila level (all relevant Tables Team-wise are annexed at the end of this write-up are reported.

#### a) BAU Team-1

Data not provided for two Upazilas viz., Bogra Sadar and Gabtali. Naria and Sadarpur has been reported as the highest Kheshari growing areas (covering 6.47% and 6.97% of area in 1998/99 respectively. Yield level for Matlab has been shown quite high (2.80 tonne/ha in 1997) but in the following year the yield was only 0.77 (near at national level) tonne which makes earlier figure doubtful. Can yield be fallen so much being a dry season crop?

#### b) BAU Team-2

Data not provided for 6 Upazilas. Gualando and Mohammadpur were the highest Kheshari growing areas (3.92% and 3.73% area covered) reported by this Team. In most Upazials yield levels were higher (more than 1 tonne) than the national average.

#### c) BRRI Team

Data were not provided for 5 Upazilas. The highest Kheshari growing Upazila was Bhola (covered area 5.10%, 6.15% and 6.24% respectively for the years 1996/97, 1997/98 and 1998/99) followed by Barisal (4.65% in 1998/99). Yield level of the Upazilas hover around the national level.

#### d) DU Team

Data were not provided for 2 Upazilas. Bera and Ishawardi were the two most Kheshari growing areas (6.26% and 5.07% area covered in 1998/99). Mollahat yield level of 3 tonne, 2.9



tonne and 3.1 tonne in the three reference years (1997,1998 and 1999) seem too high considering the national yield level (and yield level reported by other Teams).

The highest Kheshari growing Upazilas were Sadarpur, Naria, Bhola, Bera and Barisal Sadar (of the 100 Upazilas reported by 4 Teams).

## 2. Area and Yield of Chickpea

Chickpea (gram) area covered 0.61% of the total cropped area nationally in 1996/97 and the yield per hectare was 0.73 tonne (lower than Kheshari).

### a) BAU Team 1

Data were not provided for 11 Upazilas. For some Upazilas, data were not available for all the three years. As of this Team, the highest chickpea growing Upazila was Boalmari (area covered was 1.34%). Yield level of 2.50 tonne per hectare at Matlab in 1996/97 seem quite high considering the national yield level.

### b) BAU Team 2

Data were not provided for 13 Upazilas. The highest chickpea growing area reported by this Team was Sadar (Sadarpur?) covering 1.44% area in 1998/99. How could be yield level 49.28 tonne for Sadar in 1998/99 (see the national average).

### c) BRRI Team

Data were not provided for 4 Upazilas. The highest chickpea growing Upazila was Godabari (covered 4.45% area in 1998/99 followed by Barisal (1.09% area). Yield more than 2 tonnes for Kaharol seem high figure considering the national average and yield of other Upazilas.

### d) DU Team

No information were provided for 11 Upazilas. Kushtia Sadarpur is appeared as the highest Chickpea growing area (covered 4.30% of cropped area) followed by Shibgonj (1.58% area covered in 1998/99). Yield reported was in kg which should be in tonnage for uniformity with other Teams.

The highest Chickpea growing Upazilas were Godabari, Sadar, Shibgonj and Boalmari.

## 3. Area and Yield of Sesame

Sesame area as percentage of total cropped area covered 0.58% in 1996/97 nationally. Yield of sesame per hectare was 0.61 tonne in 1996/97.

### a) BAU Team 1

Data were not provided for 11 Upazilas. For the reported Upazilas, area coverage was less than 1 per cent in every Upazila except Hatia wherein sesame covered 17% of the cropped area in 1998/99 and 19.97% in 1997/98 and 7.16% in 1996/97. So high percentage of coverage by a single oil crop needs re-confirmation for validity. Hatia area figures remain as a big surmise. Yield per hectare surpassed 1 tonne in 8 Upazilas out of reported 14 Upazilas in

1998/99. Yield more than 2 tonnes (Chhagalnaiya) appeared high considering the national average. No other Team also reported so high yield level.

**b) BAU Team 2**

No data were reported for 16 Upazilas. Of the reported Upazilas, in only Baliakandi, sesame area covered more than 1 per cent (1.26%). Yield of sesame per hectare has been 1.25 tonne in 1999 (less than 1 tonne in other reported Upazilas).

**c) BRRI Team**

No data were reported for 13 Upazilas. Of the reported Upazilas, Atwari and Rajibpur covered 1.06 and 1.41 per cent of cropped area under sesame crop (rest of the Upazilas are less than 1 per cent) in 1999. Four Upazilas out of 12, produced more than 1 tonne per hectare in 1999.

**d) DU Team**

No data were provided for 13 Upazilas. Of the reported Upazilas, Batiaghata and Santhia Upazilas covered 2.69 and 2.77 per cent of cropped area under sesame in 1999. Dumuria exhibited highest yield level of 1.6 tonne in 1999 and the lowest has been 0.39 tonne. The range of yield variation has been 0.42 tonne to 1.7 tonne in 1998 (the range has been of almost same magnitude in 1997).

The highest sesame producing Upazilas were Santhia, Batiaghata, Rajibpur and Atwari (Hatia figure is doubtful, so have not mentioned here).

**4. Area and Yield of Blackgram**

Blackgram (Mashkalai) area was 0.47% of total cropped area in Bangladesh in 1996/97. Yield level per hectare was 0.78 tonne.

**a) BAU Team 1**

Data were not reported for 8 Upazilas. Most percentage of cropped area figure were below national average in all the three reference years. Upazilas exceeding 1 per cent of cropped area (under the crop) were Islampur (1.09%), Mymensingh Sadar (2.03) and Sadarpur (6.52%). Sadarpur figure seems very high for a single crop in any year (preceding two years figures were less than 2%). Yield figures were less than 2%. Yield figures of Matlab (3.45 tonne and 3.10 tonne) seem abruptly high (in comparison to national average and other Upazila figures).

**b) BAU Team 2**

Data were not provided for 12 Upazilas. Gualanda Upazila exhibited 4.02% of cropped area under blackgram (for many crops, Gualando figures on area coverage exhibited high magnitudes) in 1999. Other two major blackgram growing Upazilas (in terms of area coverage) were Sadarpur (1.22%) and Shakhipur (1.45%). Upazila yield level figures were less than 1 tonne in 1999. The highest yield level was for Kalihati Upazila (1.14 tonne) in 1998. Gualando figures should be checked and corrected.



c) **BRRI Team**

Information were not provided for 9 Upazilas. The highest blackgram growing Upazila was Godabari (percentage of cropped area was 3.2%, 3.57% and 2.94% for the years 1997, 1998 and 1999 respectively). The highest yield level was observed for Kaligonj though unusually falling (2.70, 1.50 and 1 tonne in three consecutive years).

d) **DU Team**

Data were not provided for 9 Upazilas. In 1999, 8.61 per cent of the total cropped area was under blackgram in Nawabgonj Upazila and appeared too high for a single less important crops. The next blackgram growing Upazila was Bera (3.67% of cropped area). Yield more than 2 tonnes for Santhia Upazila was on very high side considering the national average and other Upazila yield figures.

5. **Area and Yield of Mungbean**

Mungbean area covers 0.40% of total cropped area of the country. Average yield per hectare was 0.62 tonne in 1996/97.

a) **BAU Team 1**

No information were provided for 5 Upazilas (Bogra Sadar, Hatia, Jagannathpur, Joypurhat Sadar and Patharghata). Percentage of area under the crop was less than 1 for all the reported Upazilas in all the three years. Yield level for Hossainpur Upazila for both 1997 and 1998 was unusually high e.g., 6.50 tonne and 6.80 tonne/ha in 1997 and 1998 respectively. For the same Upazila, mungbean yield was 0.68 tonne in 1997. Therefore the earlier two yield figures would be considered as reasonably inaccurate. The same thing could also be said for Matlab yield figures (3.10 and 3.48 tonne in 1997 and 1998 respectively).

b) **BAU Team 2**

No information were provided for 8 Upazilas (Barisal, Delduar, Gopalpur, Kalihati, Karingonj, Mirzapore, Muktagacha Sadar). Area covered by Bhuapur was 3.01, 2.39 and 2.39 per cent of the total cropped area in 1997, 1998 and 1999 respectively. Bhuapur appears as high mungbean growing area but why other neighbouring Upazilas are not growing the crop at all? 1998 yield of mungbean for Bhuapur was 7.51 tonne/ha which is difficult to be taken as accurate figure considering the national average and other Upazila figures (see the national yield figure).

c) **BRRI Team**

Data were not provided for 6 Upazilas (Baniachong, Bishwanath, Kaharol, Mohanpur, Porsha and Rajibpur). The highest mungbean growing Upazila was Bhola. This Upazila covered 3.96, 3.85 and 2.54 per cent of cropped area in 1997, 1998 and 1999 respectively (Bera, Sujanagar and Bhola were three Upazilas covering the highest level of area in percentage term with Bera topped the list). Agailjhara yield of 793 tonne per hectare in 1997 is simply absurd and needs to be corrected.

d) **DU Team**

Information were not provided for 8 Upazilas. Bera reported by this Team was the Upazila covering the highest percentage of area (7.45, 7.52 and 7.19 per cent of area in 1997, 1998 and 1999 respectively). This reported yield in kg ranging from 0.62 tonne to 1.78 tonne in 1999 and 0.63 tonne to 2.0 tonne in 1998.

6. **Area and Yield of Sweet Potato :**

Sweet potato area as percentage of total cropped area in Bangladesh was 0.31 in 1996/97 with yield level of 9.39 tonne per hectare.

a) **BAU Team 1**

Area under sweet potato exceeded 1 per cent of total cropped area for the Upazilas of Austagram, Islampur, and Naria during all the three years data were referred to. Bhola and Bhuapur (reported by BAU Team-2) were other two Upazilas covering highest-sweet potato area (2.38% and 2.43% area covered respectively). Yield level exceeded more than 5 times than the national average for Matlab Upazila (48 tonne) and for Patharghata (45 tonne) in 1998. So high figures need rechecking. All yield figures exceeded the national yield figure for all the Upazilas except in 1996/97, 1 Upazila in 1997/88 and 1 in 1998/99. Data were not provided for 3 Upazilas.

b) **BAU Team 2**

Data were not provided for 6 Upazilas. Area covered was less than 1 per cent for all the reported Upazilas except Bhuapur (2.43%) and Ramgati (1.10%) in 1999. Area under this crop was less than 1 per cent for all the Upazilas except Bhuapur in preceding two years. No extreme value for yield data was reported.

c) **BRRI Team**

No data were provided for Mohanpur Upazila. Of the reported Upazilas, 3 Upazilas exceeded 1 per cent of cropped area under this crop (Bhola, Borhanudding and Mehendigonj) in 1999. No extreme value of yield level was reported. The yield range has been 3.26 tonne to 22 tonne in 1999 and exhibited almost similar magnitudes in preceding two years).

d) **DU Team**

Data were not provided for Nachol and Terakhada. Of the reported Upazilas, none exceeded 1 per cent of total cropped area under this crop during the reference years. No extreme values were reported of yield levels (5 tonne to 21 tonne in 1999). Yield per hectare reported was expressed in kgs which should be in tonnage. The highest sweet potato growing areas were Bhola, Bhuapur and Ramgati.

7. **Area and Yield of Groundnut**

Groundnut area as per cent of total cropped area was 0.25 in 1997/98. Yield per hectare was 0.46 tonne.

a) **BAU Team 1**

No information was provided for 6 Upazilas. Area figure for Sadarpur appeared quite high (7.33%, 6.70% and 9.33 % respectively for 1997, 1998 and 1999). All other area figures were less than 1 per cent except Islampur (1.75%) in 1999. Sadarpur figure should be checked. All yield figures were higher than national average in 1999 (more than 1 tonne in each Upazila). All yield figures were also higher (more than 1 tonne and in cases exceeding two tonnes) in 1998 except Matlab (almost similar is the situation in 1997).

b) **BAU Team 2**

No information was provided for 5 Upazilas. Area figure for Ramgati was exceptionally high (7.88%, 8.64% and 8.25% respectively in 1997, 1998 and 1999). All other area figure was less than 1 per cent except Bhuapur and Gualanda in 1999. Most yield figures were higher than the national average in all the three years.

c) **BRRI Team**

Data were not provided for 10 Upazilas. Major groundnut growing Upazilas (covering more than 1 percent of cropped area) were Agailjhara, Bhola, Daulatpur and Kaligonj as reported by the Team. Yield figures were consistently higher for all the Upazilas than the national average (in most



cases more than 1 tonne). All the Teams consistently reported higher yield level of groundnut than the national average. Does the national level reporting understates the actual yield figure? This is not impossible when before reaching to the national level, original figures got edited/cleaned at several regional/district levels giving subjectivity to the figures and this could more happen with minor and less important crops due to sheer negligence.

**d) DU Team**

No data were provided for 12 Upazilas. Bera Upazila appeared as the major groundnut growing Upazila covering more than 5% of the total cropped area. All other reported Upazilas had less than 1 per cent of the cropped area under groundnut. Yield figure of Santhia exceeding 3 tonnes for the reference year appeared unreasonable considering the yield level reported by other Teams and the national average. Yield figure should be in tonnage.

Major groundnut growing Upazilas were Sadarpur, Ramgati and Islampur.

**8. Area and Yield of Maize**

Maize area as percentage of total cropped area is 0.02% in 1996/97 in Bangladesh with yield per hectare of 1.01 tonne.

**a) BAU Team 1**

Information was available for 21 Upazilas out of 25 Upazilas investigated. BAU Team 2 provided information for 21 Upazilas, BRRI Team gathered data for 17 Upazilas and DU Team gathered information for 15 Upazilas. It appeared that cultivation of maize is quite spread all over Bangladesh as the Upazila-wise information revealed.

Area covered was less than 0.50% in each Upazila except Bogra Sadar in 1999 (covered 0.57%). Daulatpur topped the list among all Teams in covering maize area (1.49% of total cropped area in 1999) followed by Savar (1.35%). Yield of 6 tonne (1998) and 5.83 tonne in 1999 should be checked because this is 6 times higher than the national average.

**b) BAU Team 2**

Nowhere percentage of area covered exceeded 0.50 except Savar Upazila. Yield information for many Upazilas was not available for 1997 and 1998. Yield figure of 15.33 tonne in Shakhipur in 1999 cannot be taken as accurate. This figure must be corrected. Yield figures exceeding 5/6 tonnes should be checked for accuracy. What does yield figure of 48.29 tonne in 1998 mean? This is certainly an absurd figure.

**c) BRRI Team**

In Kaharol, Kaligonj and Godabari, maize coverage was more than 0.50% but less than 1%. Yield figure of 10 tonnes for Kaharol and Mohanpur having 6.67 tonne yield and such figures during the reference years need re-checking and corrected.

**d) DU Team**

Maize coverage for 17.52% of cropped area for Shibgonj in 1998 must be corrected because so high coverage may be impractical. Maize area coverage in 1997 was 0.99% and in 1999 0.59%. Yield of 49 tonne of Kushtia Sadar in 1998 could be considered absurd! Yield ranged between 0.74 tonne (Sujanagar) to 5.25 tonne (Shibgonj). Yield figures were reported in kgs (contrary to other Teams and should be in tonnage).

The Major maize growing Upazilas were Daulatpur, Savar and Shibgonj.

Copy to for information and necessary action :

1. Dr. Md. Shahadat Hossain  
Member-Director (AERS), BARC, Farmgate, Dhaka.
2. Dr. Md. Abul Basher  
Coordinator (GIS Data Collection Project)  
Dept. of Agril. Finance  
BAU, Mymensingh-2202.
3. Mr. Md. Anwar Iqbal  
National Project Director  
GIS Project, BARC, Dhaka.
4. Prof. Md. Tofazzal Hossain Miah  
Dept. of Agril. Economic  
BAU, Mymensingh-2202.
5. Mr. A. Latif Miah  
Deputy Director, BSERT  
BAU, Mymensingh-2202.
6. Dr. Abdul Jabbar  
PI, GIS Data Collection Project  
BRRI, Joydebpur, Gazipur
7. Dr. Fazlul Hoq Shah  
PI, GIS Data Collection Project  
Dept. of Marketing, DU, Dhaka-1000.



(BAIL-1)

|                  | NCNAME |        |        |      |        |        |      |        |        |  |
|------------------|--------|--------|--------|------|--------|--------|------|--------|--------|--|
|                  | Maize  |        |        |      |        |        |      |        |        |  |
|                  | AR97   | PCA97  | YLD97  | AR98 | PCA98  | YLD98  | AR99 | PCA99  | YLD99  |  |
| ALAMDANGA        | 14     | .03    | 3.45   | 14   | .03    | 3.45   | 52   | .10    | 3.50   |  |
| AUSTAGRAM        | 13     | .02    | 2.30   | 14   | .02    | 1.78   | 50   | .09    | 2.60   |  |
| BOALMARI         | 1      | .00    | 1.50   | 5    | .01    | 1.60   | 0    | .00    | 1.70   |  |
| BOGRA SADAR      | 90     | .17    | 5.00   | 254  | .47    | 6.00   | 300  | .57    | 5.83   |  |
| CHHAGALNAYA      |        |        |        |      |        |        |      |        |        |  |
| GABTALI          | -99    | -99.00 | -99.00 | -99  | -99.00 | -99.00 | 2    | .01    | 3.50   |  |
| GOURIPUR         | -99    | -99.00 | -99.00 | 1    | .00    | 2.80   | 9    | .03    | 2.25   |  |
| HATHAZARI        | -99    | -99.00 | -99.00 | -99  | -99.00 | -99.00 | 1    | .01    | 4.00   |  |
| HATIA            |        |        |        |      |        |        |      |        |        |  |
| HOSSAINPUR       | 20     | .11    | 4.00   | 10   | .05    | 2.50   | 20   | .10    | 4.50   |  |
| ISLAMPUR         | -99    | -99.00 | -99.00 | 1    | .00    | 2.00   | 10   | .04    | -99.00 |  |
| JAGANNATHPUR     |        |        |        |      |        |        |      |        |        |  |
| JAMALPUR SADAR   | -99    | -99.00 | -99.00 | 16   | .03    | 7.00   | -99  | -99.00 | -99.00 |  |
| JOYPURHAT SADAR  | 5      | .01    | 2.10   | 5    | .01    | 1.92   | 4    | .01    | 1.88   |  |
| LAXMIPUR SADAR   | -99    | -99.00 | -99.00 | -99  | -99.00 | -99.00 | 110  | .19    | 3.00   |  |
| MATLAB           | 5      | .01    | 2.63   | 5    | .01    | 2.40   | 11   | .02    | 2.61   |  |
| MYMENSINGH SADAR | 3      | .01    | 1.50   | 3    | .01    | 1.75   | 15   | .04    | 1.93   |  |
| NARIA            | 15     | .06    | 3.20   | 10   | .04    | 4.00   | 30   | .12    | 4.30   |  |
| PATHARGHATA      |        |        |        |      |        |        |      |        |        |  |
| PATIA            | 2      | .01    | 3.50   | 2    | .01    | 3.50   | 2    | .01    | 4.00   |  |
| PIRIJUPUR SADAR  | 1      | .00    | 4.00   | -99  | -99.00 | -99.00 | -99  | -99.00 | -99.00 |  |
| SADARPUR         | -99    | -99.00 | -99.00 | -99  | -99.00 | -99.00 | 20   | .09    | 1.25   |  |
| SHARISABARI      | 5      | .03    | 2.50   | -99  | -99.00 | -99.00 | 18   | .03    | 1.82   |  |
| SHARUPKATI       | 1      | .00    | 2.20   | 1    | .00    | 3.50   | 15   | .09    | 3.50   |  |
| SUNAMGONJ SADAR  | 11     | .03    | 2.00   | 20   | .05    | 2.00   | 23   | .05    | 1.65   |  |

Table : ?? : Cropped Area (Ha), Percentage of Total CA and Yield of different crops by Upazila (Team-BAU2)

| CODE VARIA  |     |        |     |      |        |     |      |        |  |  |
|-------------|-----|--------|-----|------|--------|-----|------|--------|--|--|
| Maize       |     |        |     |      |        |     |      |        |  |  |
| A97         | P97 | YLD97  | A98 | P98  | YLD98  | A99 | P99  | YLD99  |  |  |
| Baliakandi  | 5   | 4.50   | 2   | .01  | 4.50   | 12  | .04  | 4.50   |  |  |
| Basail      | -99 | -99.00 | -99 | .00  | -99.00 | 23  | .11  | 4.00   |  |  |
| Bhaluka     | -99 | -99.00 | 45  | .10  | 4.50   | 23  | .05  | 6.45   |  |  |
| Bhuapur     | .   | .      | .   | .    | .      | .   | .    | .      |  |  |
| Delduar     | -99 | -99.00 | -99 | .00  | -99.00 | 30  | .14  | 4.50   |  |  |
| Ghatail     | -99 | -99.00 | 80  | .13  | 4.50   | 50  | .08  | 3.20   |  |  |
| Gopalpur    | 8   | 5.63   | 12  | .04  | 4.80   | 22  | .07  | 5.00   |  |  |
| Gualanda    | 3   | 3.40   | 2   | .01  | 3.20   | 20  | .13  | 3.50   |  |  |
| Kalaroa     | .   | .      | .   | .    | .      | .   | .    | .      |  |  |
| Kalihati    | 10  | 1.50   | 25  | .07  | 1.76   | 20  | .05  | 3.00   |  |  |
| Karimganj   | -99 | -99.00 | -99 | .00  | -99.00 | 18  | .06  | 4.20   |  |  |
| Madhupur    | .   | .      | .   | .    | .      | .   | .    | .      |  |  |
| Mirzapur    | 11  | 3.27   | 13  | .03  | 3.23   | 15  | .04  | 3.93   |  |  |
| Mohammadpur | 2   | 3.40   | 4   | .01  | 3.45   | 3   | .01  | 3.45   |  |  |
| Muktagachha | .   | .      | .   | .    | .      | .   | .    | .      |  |  |
| Nagarpur    | -99 | -99.00 | -99 | .00  | -99.00 | 30  | .11  | 4.50   |  |  |
| Parshuram   | 2   | 2.00   | -99 | .00  | -99.00 | -99 | .00  | -99.00 |  |  |
| Raipur      | -99 | -99.00 | -99 | .00  | -99.00 | 20  | .12  | 3.00   |  |  |
| Ramgati     | 5   | 4.00   | 6   | .01  | 4.16   | 40  | .06  | 4.50   |  |  |
| Sadar       | 12  | 2.98   | -2  | .06  | -48.29 | 44  | .06  | 2.97   |  |  |
| Savar       | -99 | -99.00 | 261 | 1.21 | 3.20   | 291 | 1.35 | 2.50   |  |  |
| Shahrasti   | -99 | -99.00 | -99 | .00  | -99.00 | 5   | .02  | 4.00   |  |  |
| Shakhipur   | 42  | 6.50   | 33  | .12  | 6.50   | 26  | .09  | 15.33  |  |  |
| Trisal      | -99 | -99.00 | 70  | .18  | 5.86   | -99 | .00  | -99.00 |  |  |

Data not provided for 4 Upazila



| THANA_NAME          | NCNAME |       |       |     |       |       |     |       |       |  |
|---------------------|--------|-------|-------|-----|-------|-------|-----|-------|-------|--|
|                     | Maize  |       |       |     |       |       |     |       |       |  |
|                     | A97    | PCA97 | YLD97 | A98 | PCA98 | YLD98 | A99 | PCA99 | YLD99 |  |
| Aditmari            | 22     | .08   | 1.80  | 40  | .15   | 2.30  | 10  | .04   | 2.20  |  |
| Agailjhara          | 0      | .00   | .00   | 1   | .01   | 1.30  | 8   | .07   | 2.50  |  |
| Atwari              | 5      | .02   | 1.50  | 20  | .08   | 3.50  | 45  | .16   | 3.70  |  |
| Baliadangi          | 90     | .26   | 3.20  | 75  | .23   | 3.00  | 80  | .24   | 3.10  |  |
| Baniachong          |        |       |       |     |       |       |     |       |       |  |
| Barisal             | 3      | .01   | 2.50  | 7   | .04   | 2.95  | 25  | .10   | 2.24  |  |
| Bhola               |        |       |       |     |       |       |     |       |       |  |
| Birai               |        |       |       |     |       |       |     |       |       |  |
| Bishwanath          |        |       |       |     |       |       |     |       |       |  |
| Boranuddin          | 0      | .00   | .00   | 3   | .01   | 4.50  | 9   | .02   | 4.00  |  |
| Chiribandar         |        |       |       |     |       |       |     |       |       |  |
| Dautlatpur          |        |       |       |     |       |       |     |       |       |  |
| Debiganj            | 15     | .04   | 2.40  | 18  | .04   | 2.25  | 30  | .07   | 2.30  |  |
| Gaurnadi            | 2      | .02   | 3.00  | 3   | .03   | 3.40  | 28  | .27   | 3.00  |  |
| Godabari            | 116    | .23   | 2.14  | 125 | .24   | 2.06  | 312 | .56   | 2.54  |  |
| Kanarol             | 200    | .70   | 9.50  | 235 | .81   | 9.20  | 250 | .86   | 10.00 |  |
| Kaliganj            | 45     | .16   | 7.50  | 230 | .82   | 6.00  | 129 | .41   | 5.25  |  |
| Laimanirhat         | 23     | .06   | 3.40  | 50  | .13   | 4.50  | 52  | .16   | 4.50  |  |
| Mehendiganj         | 2      | .01   | 2.00  | 4   | .01   | 2.80  | 6   | .02   | 2.50  |  |
| Mohanpur            | 0      | .00   | .00   | 1   | .00   | 5.31  | 3   | .02   | 6.67  |  |
| Naogaon sadar       |        |       |       |     |       |       |     |       |       |  |
| Porsha              | 0      | .00   | .00   | 4   | .01   | 3.45  | 3   | .01   | 3.25  |  |
| Rajibpur (Dhusmara) |        |       |       |     |       |       |     |       |       |  |
| Rajnagar            | 0      | .00   | .00   | 0   | .00   | .00   | 0   | .00   | 2.00  |  |
| Singair             | 82     | .32   | 4.10  | 93  | .30   | 4.70  | 105 | .34   | 4.80  |  |

Data not provided for  
8 Upazila

| THANA_NAME     | CODE VARIA |     |       |      |       |       |      |       |      |  |
|----------------|------------|-----|-------|------|-------|-------|------|-------|------|--|
|                |            |     |       |      |       | Maize |      |       |      |  |
|                | AR97       | P97 | YLD97 | AR98 | P98   | YLD98 | AR99 | YLD99 | P99  |  |
| Bagerhat Sadar | 0          | .00 | 0     | 0    | .00   | 0     | 5    | 2800  | .02  |  |
| Barnatta       |            |     |       |      |       |       |      |       |      |  |
| Batiaghata     |            |     |       |      |       |       |      |       |      |  |
| Bera           | 14         | .08 | 2900  | 16   | .09   | 3100  | 25   | 3000  | .13  |  |
| Bheramara      | 0          | .00 | 0     | 1    | .01   | 1235  | 2    | 1440  | .01  |  |
| Daulatpur      | 0          | .00 | 0     | 680  | 1.68  | 2440  | 619  | 2935  | 1.49 |  |
| Dumuria        |            |     |       |      |       |       |      |       |      |  |
| Durgapur       | 7          | .03 | 3000  | 8    | .03   | 3000  | 12   | 3500  | .04  |  |
| Harinakundu    | 5          | .02 | 980   | 6    | .02   | 950   | 7    | 1000  | .02  |  |
| Isnawardi      |            |     |       |      |       |       |      |       |      |  |
| Jhinaidaha     |            |     |       |      |       |       |      |       |      |  |
| Kendua         | 0          | .00 | 0     | 17   | .05   | 3200  | 10   | 3000  | .03  |  |
| Kushtia Sadar  | 0          | .00 | 0     | 5    | .01   | 49400 | 38   | 4940  | .12  |  |
| Maneshpur      | 7          | .02 | 1200  | 7    | .02   | 1040  | 5    | 900   | .01  |  |
| Mirpur         | 11         | .04 | 4307  | 11   | .04   | 3721  | 12   | 4621  | .05  |  |
| Mollahat       | 3          | .02 | 3150  | 150  | .55   | 3250  | 1    | 3000  | .01  |  |
| Nacnol         |            |     |       |      |       |       |      |       |      |  |
| Nawabbanj      | 0          | .00 | 0     | 3    | .01   | 4800  | 2    | 5100  | .01  |  |
| Paikgachha     |            |     |       |      |       |       |      |       |      |  |
| Purbadhala     |            |     |       |      |       |       |      |       |      |  |
| Rampal         | 15         | .05 | 2900  | 15   | .04   | 3000  | 20   | 3000  | .05  |  |
| Ramu           |            |     |       |      |       |       |      |       |      |  |
| Santhia        |            |     |       |      |       |       |      |       |      |  |
| Sarankhola     |            |     |       |      |       |       |      |       |      |  |
| Shibganj       | 325        | .99 | 4150  | 8615 | 17.52 | 5000  | 260  | 5250  | .59  |  |
| Sujanagar      | 2          | .01 | 712   | 3    | .01   | 603   | 2    | 745   | .01  |  |
| Terakhada      |            |     |       |      |       |       |      |       |      |  |

Data not provided for 12 upazilas



5A11-1

|                  | NCNAME    |        |        |      |       |       |      |       |       |  |
|------------------|-----------|--------|--------|------|-------|-------|------|-------|-------|--|
|                  | Groundnut |        |        |      |       |       |      |       |       |  |
|                  | AR97      | PCA97  | YLD97  | AR98 | PCA98 | YLD98 | AR99 | PCA99 | YLD99 |  |
| ALAMDANGA        | 40        | .09    | 3.30   | 27   | .06   | 3.00  | 20   | .04   | 3.20  |  |
| AUSTAGRAM        | 160       | .25    | 2.00   | 170  | .28   | 2.10  | 280  | .48   | 1.95  |  |
| BOALMARI         | 3         | .01    | 1.50   | 4    | .01   | 1.50  | 3    | .01   | 1.70  |  |
| BOGRA SADAR      |           |        |        |      |       |       |      |       |       |  |
| CHHAGALNAYA      | 7         | .04    | 1.89   | 7    | .04   | 1.36  | 9    | .05   | 1.82  |  |
| GABTALI          |           |        |        |      |       |       |      |       |       |  |
| GOURIPUR         | 16        | .04    | 2.20   | 44   | .12   | 2.00  | 25   | .09   | 1.80  |  |
| HATHAZARI        | 9         | .05    | 1.70   | 7    | .04   | 1.80  | 2    | .01   | 2.00  |  |
| HATIA            |           |        |        |      |       |       |      |       |       |  |
| HOSSAINPUR       | 50        | .26    | 1.85   | 55   | .28   | 1.90  | 55   | .27   | 1.90  |  |
| ISLAMPUR         | 450       | 1.70   | 1.60   | 350  | 1.24  | 1.50  | 400  | 1.75  | 1.40  |  |
| JAGANNATHPUR     |           |        |        |      |       |       |      |       |       |  |
| JAMALPUR SADAR   | 240       | .45    | 2.50   | 100  | .16   | 1.30  | 23   | .04   | 1.40  |  |
| JOYPURHAT SADAR  |           |        |        |      |       |       |      |       |       |  |
| LAXMIPUR SADAR   | -99       | -99.00 | -99.00 | 300  | .52   | 1.70  | 250  | .43   | 1.30  |  |
| MATLAB           | 140       | .24    | 1.24   | 150  | .25   | .85   | 150  | .24   | 1.70  |  |
| MYMENSINGH SADAR | 63        | .14    | .95    | 50   | .12   | 1.50  | 90   | .23   | 1.80  |  |
| NARIA            | 15        | .06    | 1.80   | 14   | .06   | 1.42  | 25   | .10   | 1.50  |  |
| PATHARGHATA      |           |        |        |      |       |       |      |       |       |  |
| PATIA            | 2         | .01    | 1.75   | 2    | .01   | 1.50  | 1    | .00   | 1.80  |  |
| PIRIJPUR SADAR   | 4         | .01    | 1.50   | 2    | .01   | 1.50  | 5    | .02   | 1.50  |  |
| SADARPUR         | 1798      | 7.33   | 1.50   | 1610 | 6.70  | 2.50  | 2135 | 9.33  | 4.00  |  |
| SHARISABARI      | 12        | .07    | 1.75   | 50   | .24   | 2.00  | 161  | .29   | 1.80  |  |
| SHARUPKATI       | 7         | .03    | 1.70   | 10   | .05   | 1.50  | 7    | .04   | 1.60  |  |
| SUNAMGONJ SADAR  | 69        | .17    | 1.37   | 60   | .14   | 1.60  | 90   | .21   | 1.50  |  |

Table : ?? : Croppped Area (Ha), Percentage of Total CA and Yeld of different crops by Upazila (Team-BAU2)

|             | CODE VARIA |      |        |      |      |        |      |      |        |  |
|-------------|------------|------|--------|------|------|--------|------|------|--------|--|
|             | Groundnut  |      |        |      |      |        |      |      |        |  |
|             | A97        | P97  | YLD97  | A98  | P98  | YLD98  | A99  | P99  | YLD99  |  |
| Baliakandi  | -99        | .00  | -99.00 | -99  | .00  | -99.00 | 1    | .00  | 1.25   |  |
| Basail      | .          | .    | .      | .    | .    | .      | .    | .    | .      |  |
| Bhaluka     | 3          | .01  | 1.60   | 1    | .00  | 1.00   | 3    | .01  | 1.80   |  |
| Bhuapur     | -99        | .00  | -99.00 | -99  | .00  | -99.00 | 383  | 1.88 | 1.90   |  |
| Delduar     | .          | .    | .      | .    | .    | .      | .    | .    | .      |  |
| Ghatail     | -99        | .    | -99.00 | 3    | .00  | 1.00   | -99  | .00  | -99.00 |  |
| Gopalpur    | .          | .    | .      | .    | .    | .      | .    | .    | .      |  |
| Gualanda    | 205        | 1.61 | 1.24   | 165  | 1.08 | 3.30   | 160  | 1.05 | 1.38   |  |
| Kalaroa     | .          | .    | .      | .    | .    | .      | .    | .    | .      |  |
| Kalihati    | -99        | .00  | -99.00 | -99  | .00  | -99.00 | 6    | .02  | 1.09   |  |
| Karimganj   | -99        | .00  | -99.00 | -99  | .00  | -99.00 | 100  | .31  | 1.98   |  |
| Madhupur    | .          | .    | .      | .    | .    | .      | .    | .    | .      |  |
| Mirzapur    | 11         | .03  | 2.54   | 9    | .02  | 2.55   | 8    | .02  | 1.25   |  |
| Monammadpur | 2          | .01  | 1.45   | 29   | .09  | 1.60   | 82   | .26  | 1.80   |  |
| Muktagachha | 2          | .00  | .95    | 1    | .00  | .80    | 4    | .01  | .72    |  |
| Nagarpur    | -99        | .00  | -99.00 | 20   | .07  | 1.80   | 30   | .11  | 1.80   |  |
| Parshuram   | 30         | .12  | 2.07   | 35   | .14  | 2.00   | -99  | .00  | -99.00 |  |
| Raipur      | -99        | .00  | -99.00 | -99  | .00  | -99.00 | 20   | .12  | 1.50   |  |
| Ramgati     | 5100       | 7.88 | 1.70   | 5500 | 8.64 | 1.48   | 5250 | 8.25 | 1.20   |  |
| Sadar       | 33         | .04  | 1.42   | 52   | .06  | 1.45   | 107  | .13  | 1.65   |  |
| Savar       | -99        | .    | -99.00 | 60   | .28  | 1.15   | 25   | .12  | 2.00   |  |
| Shahrasti   | -99        | .00  | -99.00 | -99  | .00  | -99.00 | 1    | .00  | 1.50   |  |
| Shakhipur   | 1          | .00  | 2.00   | 5    | .02  | 1.50   | 10   | .04  | 1.79   |  |
| Trisal      | 20         | .05  | 2.50   | 10   | .03  | 2.30   | 15   | .04  | 2.13   |  |

Superior - no  
information  
Most yield  
figures high  
than national  
average



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File

|                  |       | NCNAME       |      |       |       |      |        |        |  |  |  |
|------------------|-------|--------------|------|-------|-------|------|--------|--------|--|--|--|
|                  |       | Sweet Potato |      |       |       |      |        |        |  |  |  |
| AR97             | PCA97 | YLD97        | AR98 | PCA98 | YLD98 | AR99 | PCA99  | YLD99  |  |  |  |
| ALAMDANGA        | 105   | .22          | 105  | .24   | 11.30 | 111  | .22    | 12.50  |  |  |  |
| AUSTAGRAM        | 800   | 1.24         | 850  | 1.41  | 15.00 | 870  | 1.49   | 12.50  |  |  |  |
| BOALMARI         |       |              |      |       |       |      |        |        |  |  |  |
| BOGRA SADAR      | 146   | .27          | 69   | .13   | 12.00 | 85   | .16    | 15.00  |  |  |  |
| CHHAGALNAYA      |       |              |      |       |       |      |        |        |  |  |  |
| GABTALI          | 15    | .04          | 20   | .05   | 15.40 | 32   | .09    | 14.50  |  |  |  |
| GOURIPUR         | 75    | .20          | 35   | .09   | 13.14 | 20   | .07    | 13.25  |  |  |  |
| HATHAZARI        | 21    | .13          | 22   | .13   | 20.00 | 23   | .14    | 20.00  |  |  |  |
| HATIA            |       |              |      |       |       |      |        |        |  |  |  |
| HOSSAINPUR       | 55    | .29          | 55   | .28   | 10.00 | 56   | .28    | 10.00  |  |  |  |
| ISLAMPUR         | 370   | 1.40         | 300  | 1.07  | 15.00 | 450  | 1.97   | 14.00  |  |  |  |
| JAGANNATHPUR     | 25    | .10          | 27   | .12   | 11.29 | 24   | .10    | 15.00  |  |  |  |
| JAMALPUR SADAR   | 250   | .46          | 190  | .30   | 15.00 | -99  | -99.00 | -99.00 |  |  |  |
| JOYPURHAT SADAR  | 15    | .04          | 14   | .04   | 8.50  | 15   | .04    | 8.00   |  |  |  |
| LAXMIPUR SADAR   | -99   | -99.00       | 300  | .52   | 13.00 | 300  | .52    | 28.00  |  |  |  |
| MATLAB           | 405   | .68          | 400  | .67   | 48.00 | 400  | .65    | 30.00  |  |  |  |
| MYMENSINGH SADAR | 100   | .23          | 60   | .14   | 12.00 | 100  | .25    | 21.00  |  |  |  |
| NARIA            | 450   | 1.94         | 400  | 1.77  | 20.25 | 255  | 1.02   | 18.00  |  |  |  |
| PATHARGHATA      | 25    | .12          | 35   | .16   | 45.00 | 30   | .11    | 42.00  |  |  |  |
| PATIA            | 22    | .08          | 25   | .10   | 15.00 | 20   | .08    | 12.00  |  |  |  |
| PIRIJPUR SADAR   | -99   | -99.00       | 30   | .10   | 37.00 | -99  | -99.00 | -99.00 |  |  |  |
| SADARPUR         | 93    | .38          | 98   | .41   | 15.00 | 59   | .26    | 13.50  |  |  |  |
| SHARISABARI      | 419   | 2.28         | 232  | 1.11  | 13.00 | 200  | .36    | 12.00  |  |  |  |
| SHARUPKATI       | -99   | -99.00       | 20   | .09   | 14.00 | 35   | .20    | 15.00  |  |  |  |
| SUNAMGONJ SADAR  | 345   | .83          | 350  | .81   | 12.00 | 370  | .84    | 12.30  |  |  |  |

Table : ?? : Cropped Area (Ha), Percentage of Total CA and Yeld of different croos by Upazila (Team-BAU2)

6 Upazila  
No. data

| CODE VARIA   |      |        |     |      |        |     |      |        |  |
|--------------|------|--------|-----|------|--------|-----|------|--------|--|
| Sweet Potato |      |        |     |      |        |     |      |        |  |
| A97          | P97  | YLD97  | A98 | P98  | YLD98  | A99 | P99  | YLD99  |  |
| Baliakandi   |      |        |     |      |        |     |      |        |  |
| Basail       | .00  | -99.00 | -99 | .00  | -99.00 | 41  | .20  | 14.00  |  |
| Bhaluka      | .05  | 15.00  | 17  | .04  | 16.00  | 30  | .07  | 15.00  |  |
| Bhuapur      | 2.09 | 18.40  | 397 | 1.94 | 20.59  | 497 | 2.43 | 20.59  |  |
| Delduar      |      |        |     |      |        |     |      |        |  |
| Ghatail      |      | -99.00 | 30  | .05  | 22.00  | 22  | .04  | 18.00  |  |
| Gopalpur     |      |        |     |      |        |     |      |        |  |
| Gualanda     |      |        |     |      |        |     |      |        |  |
| Kalaroa      |      |        |     |      |        |     |      |        |  |
| Kailhati     | .00  | -99.00 | -99 | .00  | -99.00 | 82  | .21  | 12.79  |  |
| Karimganj    | .00  | -99.00 | -99 | .00  | -99.00 | 30  | .09  | 5.10   |  |
| Madhupur     |      |        |     |      |        |     |      |        |  |
| Mirzapur     | .00  | -99.00 | 130 | .35  | 14.20  | -99 | .00  | -99.00 |  |
| Monammampur  | .09  | 18.40  | 25  | .08  | 15.00  | 39  | .12  | 20.25  |  |
| Muktagachha  | .24  | 9.07   | 80  | .17  | 9.40   | 92  | .19  | 9.60   |  |
| Nagarpur     | .00  | -99.00 | 225 | .83  | 27.56  | 250 | .92  | 14.00  |  |
| Parshuram    | .78  | 17.60  | 225 | .90  | 17.50  | 175 | .70  | 16.00  |  |
| Raipur       | .00  | -99.00 | 150 | .88  | 3.60   | 30  | .18  | 9.00   |  |
| Ramgati      | .00  | -99.00 | -99 | .00  | -99.00 | 700 | 1.10 | 5.00   |  |
| Sadar        | .13  | 14.30  | 88  | .10  | 14.60  | 91  | .11  | 14.75  |  |
| Savar        |      | -99.00 | 57  | .27  | 10.15  | 42  | .20  | 24.00  |  |
| Shahrasti    | .16  | 14.03  | 20  | .09  | 8.50   | 25  | .12  | 7.00   |  |
| Shakhipur    | .02  | 12.00  | 4   | .01  | 8.50   | 18  | .07  | 26.70  |  |
| Trisal       | .07  | 18.90  | 20  | .05  | 18.50  | 50  | .13  | 15.60  |  |



| THANA_NAME          | NCNAME       |       |       |      |       |       |     |       |       |  |
|---------------------|--------------|-------|-------|------|-------|-------|-----|-------|-------|--|
|                     | Sweet Potato |       |       |      |       |       |     |       |       |  |
|                     | A97          | PCA97 | YLD97 | A98  | PCA98 | YLD98 | A99 | PCA99 | YLD99 |  |
| Aditmari            | 130          | .46   | 7.50  | 110  | .41   | 7.33  | 20  | .07   | 8.20  |  |
| Agailjhara          | 20           | .17   | 17.20 | 14   | .15   | 20.01 | 10  | .09   | 18.20 |  |
| Atwari              | 15           | .07   | 11.25 | 30   | .12   | 11.75 | 115 | .41   | 11.50 |  |
| Baliadangi          | 72           | .21   | 12.95 | 65   | .20   | 13.50 | 80  | .24   | 13.07 |  |
| Baniachong          | 25           | .08   | 8.43  | 28   | .09   | 8.50  | 35  | .11   | 8.10  |  |
| Barisal             | 235          | 1.08  | 22.50 | 143  | .79   | 23.70 | 5   | .02   | 20.00 |  |
| Bhola               | 1300         | 3.49  | 19.00 | 1470 | 3.85  | 13.00 | 900 | 2.38  | 10.00 |  |
| Biral               | 1            | .00   | 9.32  | 0    | .00   | 9.62  | 0   | .00   | 9.50  |  |
| Bishwanath          | 3            | .05   | 16.00 | 9    | .06   | 17.00 | 7   | .04   | 18.00 |  |
| Boranuddin          | 600          | 1.71  | 25.00 | 350  | .95   | 16.00 | 600 | 1.55  | 12.00 |  |
| Chiribandar         | 19           | .05   | 3.42  | 20   | .05   | 3.55  | 24  | .06   | 3.26  |  |
| Dautlatpur          | 59           | .24   | 9.88  | 47   | .19   | 9.88  | 36  | .15   | 9.88  |  |
| Debiganj            | 145          | .37   | 13.50 | 103  | .25   | 13.00 | 170 | .39   | 13.25 |  |
| Gaurnadi            | 10           | .09   | 15.00 | 25   | .24   | 15.00 | 25  | .24   | 16.00 |  |
| Godabari            | 1            | .00   | 15.00 | 2    | .00   | 14.00 | 2   | .00   | 14.00 |  |
| Kanarol             | 28           | .10   | 8.50  | 15   | .05   | 9.00  | 25  | .09   | 8.70  |  |
| Kaliganj            | 135          | .48   | 24.50 | 132  | .47   | 25.00 | 150 | .48   | 10.00 |  |
| Laimanirhat         | 125          | .33   | 12.00 | 110  | .29   | 14.00 | 108 | .33   | 13.00 |  |
| Menendiganj         | 401          | 1.62  | 21.00 | 371  | 1.03  | 25.00 | 335 | 1.03  | 22.00 |  |
| Monanpur            |              |       |       |      |       |       |     |       |       |  |
| Naogaon sadar       | 120          | .37   | 22.00 | 100  | .31   | 19.00 | 150 | .46   | 20.00 |  |
| Porsha              | 9            | .03   | 8.82  | 11   | .04   | 8.95  | 12  | .04   | 9.72  |  |
| Rajibpur (Dhusmara) | 60           | .49   | 10.00 | 75   | .61   | 9.00  | 120 | .97   | 8.50  |  |
| Rainagar            | 73           | .32   | 8.84  | 70   | .28   | 8.84  | 50  | .21   | 8.80  |  |
| Singair             | 65           | .25   | 12.50 | 42   | .14   | 13.00 | 20  | .06   | 10.50 |  |

1 upazila no- data





BAU-1

| NCNAME           |       |        |      |       |       |      |        |        |  |
|------------------|-------|--------|------|-------|-------|------|--------|--------|--|
| Mungbeen         |       |        |      |       |       |      |        |        |  |
| AR97             | PCA97 | YLD97  | AR98 | PCA98 | YLD98 | AR99 | PCA99  | YLD99  |  |
| ALAMDANGA        | 30    | .06    | 30   | .07   | .75   | 70   | .14    | 1.30   |  |
| AUSTAGRAM        | 140   | .22    | 140  | .23   | .80   | 165  | .28    | .60    |  |
| BOALMARI         | 120   | .33    | 160  | .47   | .40   | 130  | .37    | .45    |  |
| BOGRA SADAR      |       |        |      |       |       |      |        |        |  |
| CHHAGALNAYA      | 10    | .06    | 10   | .05   | 1.00  | 15   | .08    | 1.20   |  |
| GABTALI          | 82    | .22    | 72   | .17   | 1.50  | 75   | .22    | 1.02   |  |
| GOURIPUR         | 12    | .03    | 20   | .05   | .54   | 25   | .09    | .55    |  |
| HATHAZARI        | 1     | .01    | 1    | .01   | 1.30  | 1    | .01    | .20    |  |
| HATIA            |       |        |      |       |       |      |        |        |  |
| HOSSAINPUR       | 60    | .32    | 60   | .31   | 6.80  | 60   | .30    | .58    |  |
| ISLAMPUR         | 30    | .11    | 25   | .09   | .90   | 25   | .11    | .30    |  |
| JAGANNATHPUR     |       |        |      |       |       |      |        |        |  |
| JAMALPUR SADAR   | 60    | .11    | 60   | .09   | .41   | 5    | .01    | .50    |  |
| JOYPURHAT SADAR  |       |        |      |       |       |      |        |        |  |
| LAXMIPUR SADAR   | -99   | -99.00 | 220  | .38   | .65   | 230  | .40    | .70    |  |
| MATLAB           | 50    | .08    | 70   | .12   | 3.48  | 65   | .11    | 1.25   |  |
| MYMENSINGH SADAR | 19    | .04    | 22   | .05   | .72   | 16   | .04    | .88    |  |
| NARIA            | 25    | .11    | 20   | .09   | 1.97  | 30   | .12    | .75    |  |
| PATHARGHATA      |       |        |      |       |       |      |        |        |  |
| PATIA            | 3     | .01    | 3    | .01   | .70   | 2    | .01    | .60    |  |
| PIRIJPUR SADAR   | 25    | .09    | 30   | .10   | .65   | 20   | .07    | .65    |  |
| SADARPUR         | 66    | .27    | 80   | .33   | 1.00  | 112  | .49    | 1.50   |  |
| SHARISABARI      | 5     | .03    | 10   | .05   | 1.00  | -99  | -99.00 | -99.00 |  |
| SHARUPKATI       | 55    | .26    | 56   | .25   | .57   | 35   | .20    | .65    |  |
| SUNAMGONJ SADAR  | 35    | .08    | 35   | .08   | .66   | 35   | .08    | .69    |  |

Table : ?? : Cropped Area (Ha), Percentage of Total CA and Yield of different crops by Upazila (Team-BAU2)

|             | CODE VARIA |      |        |      |      |        |      |      |        |  |
|-------------|------------|------|--------|------|------|--------|------|------|--------|--|
|             | Munqbeer   |      |        |      |      |        |      |      |        |  |
|             | A97        | P97  | YLD97  | A98  | P98  | YLD98  | A99  | P99  | YLD99  |  |
| Baliakandi  | 100        | .34  | .60    | 36   | .13  | .70    | 30   | .11  | .60    |  |
| Basail      |            |      |        |      |      |        |      |      |        |  |
| Bhaluka     | 92         | .21  | 1.00   | 72   | .17  | 1.10   | 78   | .18  | 1.15   |  |
| Bhuapur     | 715        | 3.01 | .78    | 487  | 2.39 | 7.51   | 487  | 2.39 | .75    |  |
| Deiduar     |            |      |        |      |      |        |      |      |        |  |
| Ghatail     | -99        |      | -99.00 | 20   | .03  | 1.50   | 25   | .04  | .90    |  |
| Gopalpur    |            |      |        |      |      |        |      |      |        |  |
| Gualanda    | 62         | .49  | 1.05   | 41   | .27  | 1.00   | 163  | 1.07 | .68    |  |
| Kalaroa     | 14         | .05  | .64    | -99  | .00  | -99.00 | -99  | .00  | -99.00 |  |
| Kailhati    |            |      |        |      |      |        |      |      |        |  |
| Karimganj   |            |      |        |      |      |        |      |      |        |  |
| Madhupur    | -99        | .00  | -99.00 | -99  | .00  | -99.00 | 370  | 1.18 | .65    |  |
| Mirzapur    |            |      |        |      |      |        |      |      |        |  |
| Mohammadpur | 134        | .46  | .71    | 128  | .41  | .73    | 116  | .37  | .75    |  |
| Muktagachna |            |      |        |      |      |        |      |      |        |  |
| Nagarpur    | -99        | .00  | -99.00 | 5    | .02  | .85    | -99  | .00  | -99.00 |  |
| Parshuram   | -99        | .00  | -99.00 | 1    | .00  | .60    | -99  | .00  | -99.00 |  |
| Raipur      | -99        | .00  | -99.00 | 150  | .88  | .30    | 30   | .18  | .50    |  |
| Ramgati     | 850        | 1.31 | .48    | 1200 | 1.89 | 2.90   | 1200 | 1.89 | .55    |  |
| Sadar       | 21         | .03  | .74    | 27   | .04  | .79    | -39  | .02  | -49.23 |  |
| Savar       |            |      |        |      |      |        |      |      |        |  |
| Shahrasti   | 2          | .01  | .50    | 2    | .01  | .75    | 2    | .01  | .50    |  |
| Shakhipur   | -99        | .00  | -99.00 | -99  | .00  | -99.00 | 720  | 2.60 | 1.50   |  |
| Trisal      | 35         | .09  | 1.30   | 34   | .09  | 1.30   | 35   | .09  | 1.32   |  |



8 upazila - 72  
in 2000-01



6 Upazilas - 7  
information

| THANA_NAME          | NGNAME   |       |        |      |       |       |     |       |       |     |
|---------------------|----------|-------|--------|------|-------|-------|-----|-------|-------|-----|
|                     | Munqbeen |       |        |      |       |       |     |       |       |     |
|                     | A97      | PCA97 | YLD97  | A98  | PCA98 | YLD98 | A99 | PCA99 | YLD99 |     |
| Aditmari            | 1        | .00   | 1.10   | 0    | .00   | .00   | 0   | .00   | .00   | .00 |
| Agailjhara          | 86       | .74   | 793.00 | 75   | .80   | .47   | 88  | .78   | .52   |     |
| Atwari              | 0        | .00   | .00    | 0    | .00   | .00   | 5   | .02   | .50   |     |
| Baliadangi          | 79       | .23   | .95    | 65   | .20   | .98   | 15  | .04   | 1.00  |     |
| Baniachong          |          |       |        |      |       |       |     |       |       |     |
| Barisal             | 150      | .69   | .85    | 168  | .93   | .80   | 100 | .39   | .37   |     |
| Bhola               | 1475     | 3.96  | .85    | 1470 | 3.85  | .80   | 960 | 2.54  | 1.11  |     |
| Biral               | 16       | .04   | .65    | 16   | .04   | .63   | 17  | .05   | .63   |     |
| Bishwanath          |          |       |        |      |       |       |     |       |       |     |
| Boranuddin          | 553      | 1.58  | 1.00   | 350  | .95   | .90   | 430 | 1.11  | .30   |     |
| Chiribandar         | 10       | .03   | .70    | 8    | .02   | .65   | 11  | .03   | .62   |     |
| Dautlatpur          | 45       | .18   | .49    | 36   | .14   | .54   | 29  | .12   | .49   |     |
| Debiganj            | 3        | .01   | .65    | 4    | .01   | .65   | 10  | .02   | .62   |     |
| Gaurnadi            | 25       | .23   | .68    | 50   | .48   | .90   | 95  | .91   | .80   |     |
| Godabari            | 0        | .00   | .00    | 5    | .01   | .60   | 2   | .00   | .50   |     |
| Kaharol             |          |       |        |      |       |       |     |       |       |     |
| Kaliganj            | 1        | .00   | 2.00   | 2    | .01   | 1.00  | 1   | .00   | 1.20  |     |
| Lalmanirhat         | 2        | .01   | .70    | 1    | .00   | .75   | 3   | .01   | .70   |     |
| Mehendiganj         | 29       | .12   | .80    | 18   | .05   | .90   | 20  | .06   | .80   |     |
| Mohanpur            |          |       |        |      |       |       |     |       |       |     |
| Naogaon sadar       | 6        | .02   | .62    | 5    | .02   | .62   | 3   | .01   | .63   |     |
| Porsha              |          |       |        |      |       |       |     |       |       |     |
| Rajibpur (Dhusmara) |          |       |        |      |       |       |     |       |       |     |
| Rajnagar            | 7        | .03   | .64    | 1    | .00   | .66   | 1   | .00   | .65   |     |
| Singair             | 0        | .00   | .00    | 27   | .09   | 1.00  | 3   | .01   | 1.00  |     |

BAIT

| NCNAME           |       |        |      |       |       |      |       |       |  |
|------------------|-------|--------|------|-------|-------|------|-------|-------|--|
| Blackgram        |       |        |      |       |       |      |       |       |  |
| AR97             | PCA97 | YLD97  | AR98 | PCA98 | YLD98 | AR99 | PCA99 | YLD99 |  |
| ALAMDANGA        | 120   | .26    | 120  | .28   | .79   | 30   | .06   | .72   |  |
| AUSTAGRAM        | 70    | .11    | 71   | .12   | .84   | 200  | .34   | 1.00  |  |
| BOALMARI         | 30    | .08    | 40   | .12   | .50   | 35   | .10   | .50   |  |
| BOGRA SADAR      |       |        |      |       |       |      |       |       |  |
| CHHAGALNAYA      |       |        |      |       |       |      |       |       |  |
| GABTALI          |       |        |      |       |       |      |       |       |  |
| GOURIPUR         | 80    | .21    | 80   | .21   | .65   | 75   | .26   | .65   |  |
| HATHAZARI        | 2     | .01    | 1    | .01   | 1.50  | 1    | .01   | .70   |  |
| HATIA            |       |        |      |       |       |      |       |       |  |
| HOSSAINPUR       | 100   | .53    | 100  | .51   | .75   | 100  | .50   | .75   |  |
| ISLAMPUR         | 200   | .76    | 155  | .55   | 1.80  | 250  | 1.09  | 1.60  |  |
| JAGANNATHPUR     |       |        |      |       |       |      |       |       |  |
| JAMALPUR SADAR   | 60    | .11    | 100  | .16   | .55   | 350  | .60   | .80   |  |
| JOYPURHAT SADAR  | 40    | .11    | 36   | .11   | 1.42  | 40   | .11   | 1.50  |  |
| LAXMIPUR SADAR   | -99   | -99.00 | 160  | .28   | .65   | 300  | .52   | .40   |  |
| MATLAB           | 200   | .34    | 300  | .51   | 3.10  | 150  | .24   | 1.10  |  |
| MYMENSINGH SADAR | 170   | .38    | 175  | .41   | .78   | 800  | 2.03  | .95   |  |
| NARIA            | 100   | .43    | 100  | .44   | .80   | 150  | .60   | .75   |  |
| PATHARGHATA      |       |        |      |       |       |      |       |       |  |
| PATIA            | 3     | .01    | 3    | .01   | 1.00  | 2    | .01   | .90   |  |
| PIRIJPUR SADAR   |       |        |      |       |       |      |       |       |  |
| SADARPUR         | 485   | 1.98   | 700  | 2.91  | 1.40  | 1491 | 6.52  | 2.50  |  |
| SHARISABARI      | 118   | .64    | 102  | .49   | 1.29  | 370  | .67   | 1.29  |  |
| SHARUPKATI       |       |        |      |       |       |      |       |       |  |
| SUNAMGONJ SADAR  | 62    | .15    | 65   | .15   | .88   | 87   | .20   | .77   |  |



Cropped Area (Ha) and Yield (??) Statistics of Different crops (1997-99) - Team DU

| THANA_NAME     | CODE VARIA |      |       |      |      |       |      |       |      |  |
|----------------|------------|------|-------|------|------|-------|------|-------|------|--|
|                | Mungbeen   |      |       |      |      |       |      |       |      |  |
|                | AR97       | P97  | YLD97 | AR98 | P98  | YLD98 | AR99 | YLD99 | P99  |  |
| Bagerhat Sadar | 1          | .01  | 900   | 2    | .01  | 790   | 0    | 800   | .00  |  |
| Barnhatta      |            |      |       |      |      |       |      |       |      |  |
| Batiagnata     | 57         | .38  | 934   | 69   | .46  | 884   | 79   | 1420  | .55  |  |
| Bera           | 1390       | 7.45 | 1325  | 1375 | 7.52 | 1101  | 1411 | 1201  | 7.19 |  |
| Bheramara      | 117        | .85  | 825   | 97   | .66  | 793   | 96   | 776   | .63  |  |
| Daulatpur      | 9          | .02  | 610   | 9    | .02  | 639   | 4    | 625   | .01  |  |
| Dumuria        | 30         | .09  | 864   | 28   | .09  | 741   | 26   | 741   | .08  |  |
| Durgapur       | 10         | .04  | 1400  | 10   | .04  | 700   | 12   | 900   | .04  |  |
| Harinakundu    | 75         | .31  | 885   | 50   | .21  | 864   | 50   | 790   | .17  |  |
| Isnawardi      | 20         | .08  | 1740  | 24   | .10  | 1640  | 28   | 1710  | .11  |  |
| Jhinaidaha     | 95         | .18  | 964   | 105  | .19  | 968   | 128  | 1000  | .23  |  |
| Kendua         | 11         | .03  | 1000  | 13   | .04  | 1000  | 15   | 1100  | .04  |  |
| Kushtia Sadar  | 0          | .00  | 0     | 15   | .04  | 617   | 15   | 617   | .05  |  |
| Manesapur      | 160        | .36  | 933   | 188  | .42  | 1008  | 224  | 900   | .49  |  |
| Mirpur         |            |      |       |      |      |       |      |       |      |  |
| Mollanat       |            |      |       |      |      |       |      |       |      |  |
| Nacnoi         |            |      |       |      |      |       |      |       |      |  |
| Nawabbanj      | 10         | .03  | 612   | 10   | .03  | 610   | 12   | 630   | .03  |  |
| Paikgachha     | 4          | .02  | 840   | 4    | .02  | 864   | 5    | 889   | .14  |  |
| Purbadhala     | 75         | .23  | 600   | 80   | .23  | 600   | 80   | 600   | .21  |  |
| Rampal         |            |      |       |      |      |       |      |       |      |  |
| Ramu           |            |      |       |      |      |       |      |       |      |  |
| Santhia        | 17         | .05  | 1976  | 20   | .05  | 2074  | 15   | 1778  | .04  |  |
| Sarankhola     |            |      |       |      |      |       |      |       |      |  |
| Shibganj       | 15         | .05  | 670   | 20   | .04  | 670   | 10   | 680   | .02  |  |
| Sujanagar      | 911        | 4.24 | 690   | 920  | 4.44 | 635   | 845  | 640   | 3.79 |  |
| Terakhada      |            |      |       |      |      |       |      |       |      |  |

8 upazilas - no  
information  
yield in kg. 7

no information  
in upazilas

Table : ?? : Cropped Area (Ha), Percentage of Total CA and Yield of different crops by Upazila (Team-BAU2)

|             | CODE VARIA |      |        |     |      |        |      |      |        |  |
|-------------|------------|------|--------|-----|------|--------|------|------|--------|--|
|             | Blackgram  |      |        |     |      |        |      |      |        |  |
|             | A97        | P97  | YLD97  | A98 | P98  | YLD98  | A99  | P99  | YLD99  |  |
| Baliakandi  | -99        | .00  | -99.00 | -99 | .00  | -99.00 | 15   | .07  | -99.00 |  |
| Basail      |            |      |        |     |      |        |      |      |        |  |
| Bhaluka     |            |      |        |     |      |        |      |      |        |  |
| Bhuapur     |            |      |        |     |      |        |      |      |        |  |
| Delduar     |            |      |        |     |      |        |      |      |        |  |
| Ghatail     |            |      |        |     |      |        |      |      |        |  |
| Gopalpur    |            |      |        |     |      |        |      |      |        |  |
| Gualanda    | 285        | 2.24 | .72    | 258 | 1.70 | .73    | 611  | 4.02 | .72    |  |
| Kalaroa     | 75         | .28  | 1.05   | 68  | .26  | .79    | -99  | .00  | -99.00 |  |
| Kalihati    | 100        | .25  | .63    | 270 | .70  | 1.14   | 318  | .83  | .77    |  |
| Karimganj   |            |      |        |     |      |        |      |      |        |  |
| Madhupur    |            |      |        |     |      |        |      |      |        |  |
| Mirzapur    | 72         | .21  | .73    | 102 | .27  | .76    | 140  | .38  | .72    |  |
| Mohammadpur | 109        | .38  | .74    | 91  | .29  | .65    | 112  | .36  | .68    |  |
| Muktagachha |            |      |        |     |      |        |      |      |        |  |
| Nagarpur    | 341        | 1.16 | .86    | 50  | .18  | .87    | 50   | .18  | .63    |  |
| Parsnuram   | 80         | .32  | 1.05   | 50  | .20  | .80    | -99  | .00  | -99.00 |  |
| Raipur      | -99        | .00  | -99.00 | -99 | .00  | -99.00 | 7    | .04  | .50    |  |
| Ramgati     |            |      |        |     |      |        |      |      |        |  |
| Sadar       | 527        | .61  | .79    | 489 | .57  | .73    | 1046 | 1.22 | .83    |  |
| Savar       |            |      |        |     |      |        |      |      |        |  |
| Shahrasti   | 6          | .03  | .66    | 6   | .03  | .60    | 10   | .05  | .65    |  |
| Shakhipur   | 510        | 1.34 | .90    | 350 | 1.27 | .80    | 400  | 1.45 | .50    |  |
| Trisal      |            |      |        |     |      |        |      |      |        |  |

For many crops,  
Gualanda figures  
(area coverage)  
~~area~~ exhibited  
high magnitudes



No information for  
12 Upazilas



| THANA_NAME          | NCNAME    |       |       |      |       |       |      |       |       |  |
|---------------------|-----------|-------|-------|------|-------|-------|------|-------|-------|--|
|                     | Blackgram |       |       |      |       |       |      |       |       |  |
|                     | A97       | PCA97 | YLD97 | A98  | PCA98 | YLD98 | A99  | PCA99 | YLD99 |  |
| Aditmari            | 50        | .18   | .70   | 15   | .06   | .54   | 20   | .07   | .92   |  |
| Agaikhara           |           |       |       |      |       |       |      |       |       |  |
| Atwari              | 30        | .13   | .60   | 40   | .16   | .50   | 50   | .18   | .55   |  |
| Baliadangi          | 175       | .51   | .85   | 277  | .85   | .93   | 300  | .89   | .95   |  |
| Baniachong          |           |       |       |      |       |       |      |       |       |  |
| Banisa              |           |       |       |      |       |       |      |       |       |  |
| Bhola               |           |       |       |      |       |       |      |       |       |  |
| Biral               | 100       | .26   | .65   | 94   | .25   | .62   | 95   | .26   | .67   |  |
| Bishwanath          |           |       |       |      |       |       |      |       |       |  |
| Boranuddin          |           |       |       |      |       |       |      |       |       |  |
| Chiribandar         | 35        | .09   | .75   | 33   | .09   | .72   | 30   | .07   | .74   |  |
| Dautlatour          |           |       |       |      |       |       |      |       |       |  |
| Debigani            | 135       | .35   | .80   | 105  | .26   | .78   | 60   | .14   | .75   |  |
| Gaurnadi            | 3         | .03   | .75   | 3    | .03   | .60   | 5    | .05   | .50   |  |
| Godabari            | 1650      | 3.21  | .90   | 1880 | 3.57  | .85   | 1650 | 2.94  | .94   |  |
| Kaharol             | 140       | .49   | 1.35  | 110  | .38   | 1.40  | 150  | .51   | 1.50  |  |
| Kailiganj           | 30        | .11   | 2.70  | 5    | .02   | 1.50  | 19   | .06   | 1.00  |  |
| Lalmanirhat         | 120       | .31   | .70   | 80   | .21   | .85   | 84   | .26   | .65   |  |
| Mehendiganj         |           |       |       |      |       |       |      |       |       |  |
| Mohanpur            | 77        | .37   | .98   | 0    | .00   | .00   | 0    | .00   | .00   |  |
| Naogaon sadar       | 62        | .19   | .93   | 60   | .19   | .93   | 45   | .14   | .93   |  |
| Porsha              |           |       |       |      |       |       |      |       |       |  |
| Rajibpur (Dhusmara) | 45        | .37   | .60   | 75   | .61   | .60   | 50   | .40   | .60   |  |
| Rajnagar            | 10        | .04   | .55   | 10   | .04   | .70   | 6    | .02   | .72   |  |
| Singair             | 74        | .28   | 1.04  | 85   | .28   | 1.20  | 268  | .87   | 1.13  |  |

No information for 9  
Upazila

| THANA_NAME     | CODE VARIA |       |       |      |      |       |      |       |      |   |
|----------------|------------|-------|-------|------|------|-------|------|-------|------|---|
|                | Blackgram  |       |       |      |      |       |      |       |      |   |
|                | AR97       | P97   | YLD97 | AR98 | P98  | YLD98 | AR99 | YLD99 | P99  |   |
| Bagerhat Sadar |            |       |       |      |      |       |      |       |      | ✓ |
| Barnatta       |            |       |       |      |      |       |      |       |      |   |
| Batiagnata     |            |       |       |      |      |       |      |       |      |   |
| Bera           | 590        | 3.16  | 1075  | 503  | 2.75 | 1127  | 721  | 970   | 3.67 |   |
| Bheramara      | 166        | 1.21  | 934   | 166  | 1.13 | 855   | 162  | 725   | 1.07 |   |
| Daulatpur      | 83         | .22   | 1102  | 62   | .15  | 1098  | 66   | 1031  | .16  |   |
| Dumuria        | 49         | .14   | 988   | 52   | .16  | 970   | 50   | 1112  | .16  |   |
| Durgapur       | 13         | .06   | 800   | 20   | .07  | 820   | 34   | 800   | .13  |   |
| Harinakundu    | 175        | .72   | 850   | 170  | .70  | 840   | 142  | 815   | .47  |   |
| Ishawardi      | 184        | .77   | 1800  | 187  | .74  | 1810  | 187  | 1790  | .74  |   |
| Jhinaldaha     | 140        | .26   | 964   | 160  | .29  | 968   | 188  | 1000  | .34  |   |
| Kendua         | 40         | .12   | 1050  | 45   | .12  | 1100  | 35   | 1200  | .10  |   |
| Kusntia Sadar  | 137        | .42   | 913   | 297  | .85  | 988   | 155  | 988   | .48  |   |
| Maneshpur      | 230        | .52   | 1050  | 250  | .56  | 945   | 200  | 1000  | .44  |   |
| Mirpur         |            |       |       |      |      |       |      |       |      |   |
| Mollanat       |            |       |       |      |      |       |      |       |      |   |
| Nachol         | 711        | 2.54  | 1370  | 650  | 2.40 | 1420  | 700  | 1500  | 2.33 |   |
| Nawabganj      | 1959       | 5.50  | 790   | 2273 | 6.10 | 760   | 3327 | 710   | 8.61 |   |
| Paikgachha     | 5          | .02   | 1062  | 6    | .03  | 1116  | 7    | 1062  | .19  |   |
| Purbadhala     | 15         | .05   | 1500  | 140  | .41  | 1500  | 145  | 1500  | .38  |   |
| Rampal         |            |       |       |      |      |       |      |       |      |   |
| Ramu           |            |       |       |      |      |       |      |       |      |   |
| Santhia        | 135        | .39   | 2275  | 140  | .35  | 2173  | 150  | 2074  | .36  |   |
| Sarankhola     |            |       |       |      |      |       |      |       |      |   |
| Shibganj       | 4750       | 14.49 | 670   | 4100 | 8.34 | 670   | 3000 | 700   | 6.75 |   |
| Sujanagar      | 850        | 3.95  | 923   | 150  | .72  | 897   | 141  | 821   | .63  |   |
| Terakhada      |            |       |       |      |      |       |      |       |      |   |

No information for 9  
Uparisilar





Table : ?? : Cropped Area (Ha), Percentage of Total CA and Yield of different crops by Upazila (Team-BAU2)

|             | CODE VARIA |      |        |     |      |        |     |      |        |  |
|-------------|------------|------|--------|-----|------|--------|-----|------|--------|--|
|             | Sesame     |      |        |     |      |        |     |      |        |  |
|             | A97        | P97  | YLD97  | A98 | P98  | YLD98  | A99 | P99  | YLD99  |  |
| Baliakandi  | 250        | .85  | .80    | 350 | 1.26 | 1.25   | 350 | 1.26 | 1.25   |  |
| Basail      | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Bhaluka     | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Bhuapur     | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Delduar     | -99        | .00  | -99.00 | -99 | .00  | -99.00 | 96  | .46  | -99.00 |  |
| Ghatail     | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Gopalpur    | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Gualanda    | 75         | .59  | .72    | 120 | .79  | .80    | 70  | .46  | .70    |  |
| Kalaroa     | 550        | 2.08 | .66    | 696 | 2.65 | .97    | -99 | .00  | -99.00 |  |
| Kalihati    | 97         | .25  | .40    | 105 | .27  | .36    | 75  | .20  | .36    |  |
| Karimganj   | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Madhupur    | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Mirzapur    | 55         | .16  | .72    | 76  | .20  | .76    | 26  | .07  | .88    |  |
| Mohammadpur | 57         | .20  | .93    | 75  | .24  | .93    | 54  | .17  | .93    |  |
| Muktagachha | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Nagarpur    | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Parshuram   | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Raipur      | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Ramgati     | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Sadar       | 147        | .17  | .63    | 68  | .08  | .75    | 157 | .19  | .68    |  |
| Savar       | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Shahrasti   | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Shakhipur   | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |
| Trisal      | .          | .    | .      | .   | .    | .      | .   | .    | .      |  |

16 villages -  
no data



BPD1

13 Upaschar - no data

| THANA_NAME          | NCNAME |       |     |       |       |     |       |       |  |  |
|---------------------|--------|-------|-----|-------|-------|-----|-------|-------|--|--|
|                     | Sesame |       |     |       |       |     |       |       |  |  |
| A97                 | PCA97  | YLD97 | A98 | PCA98 | YLD98 | A99 | PCA99 | YLD99 |  |  |
| 5                   | .02    | .45   | 10  | .04   | .65   | 20  | .07   | .69   |  |  |
| 141                 | .62    | 1.00  | 173 | .70   | 1.20  | 296 | 1.06  | 1.50  |  |  |
| Aditmar             |        |       |     |       |       |     |       |       |  |  |
| Agailjhara          |        |       |     |       |       |     |       |       |  |  |
| Atwari              |        |       |     |       |       |     |       |       |  |  |
| Baliadangi          |        |       |     |       |       |     |       |       |  |  |
| Baniachong          |        |       |     |       |       |     |       |       |  |  |
| Barisal             |        |       |     |       |       |     |       |       |  |  |
| Bhola               |        |       |     |       |       |     |       |       |  |  |
| Birai               |        |       |     |       |       |     |       |       |  |  |
| Bishwanath          |        |       |     |       |       |     |       |       |  |  |
| Boranuddin          |        |       |     |       |       |     |       |       |  |  |
| Chiribandar         |        |       |     |       |       |     |       |       |  |  |
| 5                   | .01    | .63   | 5   | .01   | .68   | 6   | .01   | .64   |  |  |
| Dautlatpur          |        |       |     |       |       |     |       |       |  |  |
| 14                  | .06    | .45   | 14  | .06   | .46   | 21  | .09   | .42   |  |  |
| Debiganj            |        |       |     |       |       |     |       |       |  |  |
| 49                  | .13    | .80   | 61  | .15   | .75   | 56  | .13   | .75   |  |  |
| Gaurnadi            |        |       |     |       |       |     |       |       |  |  |
| Godabari            |        |       |     |       |       |     |       |       |  |  |
| 60                  | .12    | .50   | 103 | .20   | .56   | 90  | .16   | .82   |  |  |
| Kanarol             |        |       |     |       |       |     |       |       |  |  |
| 11                  | .04    | 1.12  | 6   | .02   | 1.10  | 4   | .01   | 1.20  |  |  |
| Kailiganj           |        |       |     |       |       |     |       |       |  |  |
| 0                   | .00    | .00   | 0   | .00   | .00   | 3   | .01   | 1.00  |  |  |
| Lalmanirhat         |        |       |     |       |       |     |       |       |  |  |
| 1                   | .00    | .65   | 20  | .05   | .70   | 13  | .04   | .80   |  |  |
| Mehendiganj         |        |       |     |       |       |     |       |       |  |  |
| Mohanpur            |        |       |     |       |       |     |       |       |  |  |
| 10                  | .05    | 1.50  | 9   | .04   | 1.20  | 10  | .05   | .80   |  |  |
| Naogaon sadar       |        |       |     |       |       |     |       |       |  |  |
| 95                  | .29    | .72   | 100 | .31   | .75   | 120 | .37   | .71   |  |  |
| Porsha              |        |       |     |       |       |     |       |       |  |  |
| Rajibpur (Dhusmara) |        |       |     |       |       |     |       |       |  |  |
| 175                 | 1.44   | 1.00  | 175 | 1.43  | 1.00  | 175 | 1.41  | 1.00  |  |  |
| Rajnagar            |        |       |     |       |       |     |       |       |  |  |
| Singair             |        |       |     |       |       |     |       |       |  |  |





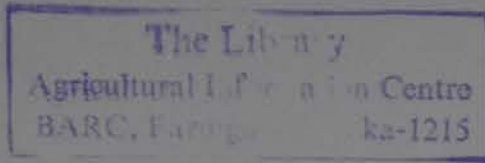
CA11

|                  | NCNAME   |        |        |      |        |        |      |        |        |  |
|------------------|----------|--------|--------|------|--------|--------|------|--------|--------|--|
|                  | Chickpea |        |        |      |        |        |      |        |        |  |
|                  | AR97     | PCA97  | YLD97  | AR98 | PCA98  | YLD98  | AR99 | PCA99  | YLD99  |  |
| ALAMDANGA        | 50       | .11    | .87    | 50   | .11    | .87    | 55   | .11    | .85    |  |
| AUSTAGRAM        |          |        |        |      |        |        |      |        |        |  |
| BOALMARI         | 400      | 1.09   | .20    | 528  | 1.54   | .20    | 477  | 1.34   | .25    |  |
| BOGRA SADAR      |          |        |        |      |        |        |      |        |        |  |
| CHHAGALNAYA      | 1        | .01    | .81    | 2    | .01    | .93    | 1    | .01    | .80    |  |
| GABTALI          |          |        |        |      |        |        |      |        |        |  |
| GOURIPUR         | 7        | .02    | 1.00   | 5    | .01    | .69    | 8    | .03    | .70    |  |
| HATHAZARI        |          |        |        |      |        |        |      |        |        |  |
| HATIA            | 862      | 1.00   | .40    | 1445 | 1.43   | .40    | 509  | .53    | .74    |  |
| HOSSAINPUR       | 40       | .21    | .85    | 30   | .15    | .75    | 45   | .22    | .92    |  |
| ISLAMPUR         |          |        |        |      |        |        |      |        |        |  |
| JAGANNATHPUR     |          |        |        |      |        |        |      |        |        |  |
| JAMALPUR SADAR   | 30       | .06    | 1.50   | -99  | -99.00 | -99.00 | -99  | -99.00 | -99.00 |  |
| JOYPURHAT SADAR  |          |        |        |      |        |        |      |        |        |  |
| LAXMIPUR SADAR   | -99      | -99.00 | -99.00 | 60   | .10    | .80    | 35   | .06    | .50    |  |
| MATLAB           | 3        | .01    | 2.50   | 5    | .01    | .93    | 4    | .01    | 1.50   |  |
| MYMENSINGH SADAR |          |        |        |      |        |        |      |        |        |  |
| NARIA            | 130      | .56    | 1.00   | 100  | .44    | .90    | 205  | .82    | .80    |  |
| PATHARGHATA      | 325      | 1.55   | .65    | 400  | 1.83   | .76    | 350  | 1.25   | .60    |  |
| PATIA            |          |        |        |      |        |        |      |        |        |  |
| PIRIJPUR SADAR   |          |        |        |      |        |        |      |        |        |  |
| SADARPUR         | -99      | -99.00 | -99.00 | 50   | .21    | -99.00 | 86   | .38    | 1.00   |  |
| SHARISABARI      | 1        | .01    | 1.00   | 6    | .03    | 1.50   | 22   | .04    | 1.50   |  |
| SHARUPKATI       |          |        |        |      |        |        |      |        |        |  |
| SUNAMGONJ SADAR  | 13       | .03    | .69    | 15   | .03    | 1.00   | 18   | .04    | 1.27   |  |

3 Upgrader  
no information  
+ one should all the  
ways - information  
no information

Table : ?? : Cropped Area (Ha), Percentage of Total CA and Yield of different crops by Upazila (Team-BAU2)

|             | CODE VARIA |      |        |     |      |          |      |      |        |   |
|-------------|------------|------|--------|-----|------|----------|------|------|--------|---|
|             |            |      |        |     |      | Chickpea |      |      |        |   |
|             | A97        | P97  | YLD97  | A98 | P98  | YLD98    | A99  | P99  | YLD99  |   |
| Baliakandi  | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Basail      | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Bhaluka     | 5          | .01  | 1.00   | 12  | .03  | 1.00     | 10   | .02  | 1.60   | . |
| Bhuapur     | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Delduar     | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Ghatail     | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Gopalpur    | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Gualanda    | -99        | .00  | -99.00 | 207 | 1.36 | .54      | 150  | .99  | .74    | . |
| Kalaroa     | 310        | 1.17 | 1.10   | 370 | 1.41 | .84      | 124  | .47  | .84    | . |
| Kalihati    | -99        | .00  | -99.00 | 10  | .03  | .73      | 2    | .01  | .73    | . |
| Karimganj   | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Madhupur    | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Mirzapur    | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Mohammadpur | 542        | 1.87 | 1.25   | 601 | 1.92 | .55      | 280  | .89  | .85    | . |
| Muktagachha | 70         | .16  | .92    | 48  | .10  | .82      | 21   | .04  | .76    | . |
| Nagarpur    | -99        | .00  | -99.00 | 65  | .24  | 1.10     | 25   | .09  | .60    | . |
| Parshuram   | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Raipur      | -99        | .00  | -99.00 | 10  | .06  | 1.20     | 4    | .02  | .30    | . |
| Ramgati     | -99        | .00  | -99.00 | -99 | .00  | -99.00   | 30   | .05  | .60    | . |
| Sadar       | 469        | .54  | .85    | 282 | .33  | .78      | 1191 | 1.44 | -49.28 | . |
| Savar       | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Shahrasti   | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Shakhipur   | .          | .    | .      | .   | .    | .        | .    | .    | .      | . |
| Trisal      | 75         | .20  | 1.20   | 75  | .20  | 1.10     | 76   | .20  | 1.20   | . |



13 Upazilas -  
no information

\* For almost all the  
crops - Number of Upazilas  
with no information  
high.



| THANA_NAME          | NCNAME   |       |       |      |       |       |      |       |       |  |
|---------------------|----------|-------|-------|------|-------|-------|------|-------|-------|--|
|                     | Chickpea |       |       |      |       |       |      |       |       |  |
|                     | A97      | PCA97 | YLD97 | A98  | PCA98 | YLD98 | A99  | PCA99 | YLD99 |  |
| Aditmani            | 2        | .01   | 1.20  | 2    | .01   | 1.30  | 3    | .01   | 1.25  |  |
| Agailjhara          | 12       | .10   | 1.50  | 10   | .11   | .98   | 8    | .07   | .95   |  |
| Atwari              | 22       | .10   | .65   | 7    | .03   | .49   | 105  | .38   | .64   |  |
| Baliadangi          | 120      | .35   | 1.20  | 95   | .29   | 1.10  | 100  | .30   | 1.25  |  |
| Baniachong          |          |       |       |      |       |       |      |       |       |  |
| Barisal             | 230      | 1.06  | 1.10  | 300  | 1.65  | 1.30  | 280  | 1.09  | 1.20  |  |
| Bhola               |          |       |       |      |       |       |      |       |       |  |
| Birai               |          |       |       |      |       |       |      |       |       |  |
| Bishwanath          |          |       |       |      |       |       |      |       |       |  |
| Boranuddin          | 500      | 1.43  | 1.20  | 500  | 1.36  | .70   | 350  | .90   | .65   |  |
| Chiribandar         | 34       | .09   | .82   | 36   | .10   | .85   | 29   | .07   | .80   |  |
| Dautlatpur          | 37       | .15   | .60   | 12   | .05   | .54   | 9    | .04   | .49   |  |
| Debiganj            | 4        | .01   | .70   | 10   | .02   | .72   | 110  | .25   | .60   |  |
| Gaurnadi            | 200      | 1.82  | .93   | 300  | 2.90  | .70   | 110  | 1.05  | .70   |  |
| Godabari            | 2100     | 4.08  | .80   | 2115 | 4.01  | .85   | 2500 | 4.45  | .70   |  |
| Kanarol             | 120      | .42   | .82   | 135  | .47   | .75   | 140  | .48   | .76   |  |
| Kailiganj           | 2        | .01   | 2.00  | 5    | .02   | 1.90  | 10   | .03   | 2.00  |  |
| Lalmanirhat         | 2        | .01   | .80   | 2    | .01   | 1.00  | 7    | .02   | .70   |  |
| Mehendiganj         | 37       | .15   | 1.40  | 26   | .07   | 1.10  | 18   | .06   | 1.30  |  |
| Mohanpur            | 25       | .12   | 2.20  | 16   | .08   | .87   | 13   | .07   | .78   |  |
| Naogaon sadar       | 16       | .05   | .75   | 9    | .03   | .80   | 15   | .05   | .74   |  |
| Porsha              | 184      | .68   | .90   | 188  | .69   | .76   | 160  | .58   | 1.46  |  |
| Rajibpur (Dhusmara) | 80       | .66   | .60   | 80   | .66   | .60   | 81   | .65   | .59   |  |
| Rajnagar            | 3        | .01   | .80   | 3    | .01   | .82   | 1    | .00   | .83   |  |
| Singair             | 21       | .08   | .88   | 16   | .05   | 1.00  | 20   | .06   | .80   |  |

No information for  
4 Upazilas

| THANA_NAME     | CODE VARIA |      |       |      |      |       |      |       |      |  |
|----------------|------------|------|-------|------|------|-------|------|-------|------|--|
|                | Chickpea   |      |       |      |      |       |      |       |      |  |
|                | AR97       | P97  | YLD97 | AR98 | P98  | YLD98 | AR99 | YLD99 | P99  |  |
| Bagerhat Sadar | 1          | .01  | 275   | 2    | .01  | 300   | 2    | 310   | .01  |  |
| Barhatta       |            |      |       |      |      |       |      |       |      |  |
| Batiaghata     | 9          | .06  | 1477  | 10   | .07  | 1392  | 12   | 1376  | .08  |  |
| Bera           |            |      |       |      |      |       |      |       |      |  |
| Bheramara      | 10         | .07  | 908   | 12   | .08  | 995   | 13   | 992   | .09  |  |
| Daulatpur      | 72         | .19  | 803   | 47   | .12  | 721   | 57   | 744   | .14  |  |
| Dumuria        | 24         | .07  | 986   | 24   | .08  | 980   | 25   | 980   | .08  |  |
| Durgapur       |            |      |       |      |      |       |      |       |      |  |
| Harinakundu    | 660        | 2.70 | 875   | 640  | 2.64 | 850   | 210  | 840   | .69  |  |
| Isnawardi      | 38         | .16  | 990   | 38   | .15  | 902   | 40   | 871   | .16  |  |
| Jhinaidaha     | 405        | .76  | 1239  | 415  | .75  | 1253  | 470  | 1200  | .86  |  |
| Kendua         | 5          | .02  | 1100  | 1    | .00  | 1000  | 3    | 1100  | .01  |  |
| Kushtia Sadar  | 927        | 2.83 | 655   | 1400 | 4.03 | 741   | 1400 | 765   | 4.30 |  |
| Maneshpur      | 40         | .09  | 980   | 50   | .11  | 925   | 30   | 900   | .07  |  |
| Mirpur         | 239        | .91  | 628   | 243  | .93  | 691   | 267  | 630   | 1.04 |  |
| Mollahat       |            |      |       |      |      |       |      |       |      |  |
| Nachol         |            |      |       |      |      |       |      |       |      |  |
| Nawabbanj      | 272        | .76  | 810   | 297  | .80  | 960   | 400  | 810   | 1.04 |  |
| Paikgachha     | 2          | .01  | 892   | 2    | .01  | 887   | 3    | 889   | .08  |  |
| Purbadhala     |            |      |       |      |      |       |      |       |      |  |
| Rampal         |            |      |       |      |      |       |      |       |      |  |
| Ramu           |            |      |       |      |      |       |      |       |      |  |
| Santhia        | 832        | 2.38 | 988   | 500  | 1.23 | 1050  | 450  | 1086  | 1.09 |  |
| Sarankhola     |            |      |       |      |      |       |      |       |      |  |
| Shibganj       | 300        | .92  | 620   | 500  | 1.02 | 670   | 700  | 850   | 1.58 |  |
| Sujanagar      |            |      |       |      |      |       |      |       |      |  |
| Terakhada      |            |      |       |      |      |       |      |       |      |  |

No information for 11  
Upazila

244-1

|                  |       | NCNAME |        |       |       |      |       |       |      |  |  |
|------------------|-------|--------|--------|-------|-------|------|-------|-------|------|--|--|
|                  |       | Khesha |        |       |       |      |       |       |      |  |  |
| AR97             | PCA97 | YLD97  | AR98   | PCA98 | YLD98 | AR99 | PCA99 | YLD99 |      |  |  |
| ALAMDANGA        | 1006  | 2.14   | .70    | 1006  | 2.31  | .70  | 667   | 1.31  | .64  |  |  |
| AUSTAGRAM        | 155   | .24    | .93    | 156   | .26   | .89  | 123   | .21   | .78  |  |  |
| BOALMARI         | 1000  | 2.74   | .35    | 900   | 2.62  | .55  | 825   | 2.32  | .60  |  |  |
| BOGRA SADAR      |       |        |        |       |       |      |       |       |      |  |  |
| CHHAGALNAYA      | 6     | .03    | .89    | 8     | .04   | 1.00 | 3     | .02   | 1.00 |  |  |
| GABTALI          |       |        |        |       |       |      |       |       |      |  |  |
| GOURIPUR         | 33    | .09    | .72    | 30    | .08   | .71  | 20    | .07   | .72  |  |  |
| HATHAZARI        | 1     | .01    | .90    | 1     | .01   | 1.00 | 1     | .01   | .70  |  |  |
| HATIA            | -99   | -99.00 | -99.00 | 19    | .02   | 1.50 | 22    | .02   | .71  |  |  |
| HOSSAINPUR       | 80    | .42    | .75    | 45    | .23   | .77  | 100   | .50   | .76  |  |  |
| ISLAMPUR         | 175   | .66    | .90    | 130   | .46   | 1.00 | 245   | 1.07  | 1.00 |  |  |
| JAGANNATHPUR     | 3     | .01    | .83    | 2     | .01   | 1.00 | 4     | .02   | .75  |  |  |
| JAMALPUR SADAR   | 100   | .19    | 1.50   | 95    | .15   | .46  | 100   | .17   | .40  |  |  |
| JOYPUKHAT SADAR  | 16    | .04    | 1.10   | 15    | .04   | 1.00 | 17    | .05   | 1.00 |  |  |
| LAXMIPUR SADAR   | -99   | -99.00 | -99.00 | 800   | 1.39  | .60  | 1000  | 1.73  | 1.00 |  |  |
| MATLAB           | 250   | .42    | 2.80   | 250   | .42   | .77  | 200   | .33   | 1.75 |  |  |
| MYMENSINGH SADAR | 45    | .10    | .82    | 100   | .23   | .70  | 75    | .19   | .69  |  |  |
| NARIA            | 1750  | 7.53   | 1.10   | 1800  | 7.97  | 1.10 | 1620  | 6.47  | .88  |  |  |
| PATHARGHATA      | 3     | .01    | .80    | 1     | .00   | .75  | 13    | .05   | .75  |  |  |
| PATIA            | 32    | .12    | .85    | 35    | .14   | .90  | 30    | .12   | .85  |  |  |
| PIRIJUPUR SADAR  | 1280  | 4.42   | .70    | 1100  | 3.73  | .70  | 1050  | 3.87  | .70  |  |  |
| SADARPUR         | 1325  | 5.40   | 1.50   | 1150  | 4.78  | 2.00 | 1595  | 6.97  | 1.50 |  |  |
| SHARISABARI      | 90    | .49    | 1.20   | 131   | .63   | 1.20 | 56    | .10   | .68  |  |  |
| SHARUPKATI       | 290   | 1.37   | .78    | 300   | 1.37  | .65  | 410   | 2.36  | .80  |  |  |
| SUNAMGONJ SADAR  | 22    | .05    | .68    | 25    | .06   | .72  | 26    | .06   | .77  |  |  |



Table : ?? : Cropped Area (Ha), Percentage of Total CA and Yield of different crops by Upazila (Team-BAU2)

|             | CODE VARIA |      |        |      |      |        |      |      |        |  |
|-------------|------------|------|--------|------|------|--------|------|------|--------|--|
|             | Keshari    |      |        |      |      |        |      |      |        |  |
|             | A97        | P97  | YLD97  | A98  | P98  | YLD98  | A99  | P99  | YLD99  |  |
| Baliakandi  | 150        | .51  | .80    | 210  | .75  | .50    | 550  | 1.98 | .60    |  |
| Basail      | -99        | .00  | -99.00 | 43   | .21  | 1.25   | 70   | .35  | 1.20   |  |
| Bhaluka     | 7          | .02  | .70    | 5    | .01  | .70    | 4    | .01  | 1.50   |  |
| Bhuapur     | 555        | 2.33 | 1.07   | 526  | 2.58 | 1.22   | 526  | 2.58 | 1.22   |  |
| Delduar     |            |      |        |      |      |        |      |      |        |  |
| Ghatail     | -99        |      | -99.00 | 8    | .01  | 1.80   | 6    | .01  | 1.50   |  |
| Gopalpur    |            |      |        |      |      |        |      |      |        |  |
| Gualanda    | 195        | 1.54 | .74    | 331  | 2.18 | 1.48   | 597  | 3.92 | 1.30   |  |
| Kalaroa     | 80         | .30  | .76    | 125  | .48  | .82    | 156  | .59  | .83    |  |
| Kalihat     | 81         | .21  | 1.09   | 30   | .08  | 1.38   | 84   | .22  | 1.10   |  |
| Karimganj   |            |      |        |      |      |        |      |      |        |  |
| Machupur    |            |      |        |      |      |        |      |      |        |  |
| Mirzapur    | 600        | 1.76 | 1.00   | 570  | 1.53 | 1.10   | 560  | 1.51 | 1.10   |  |
| Mohammadpur | 1148       | 3.95 | 1.05   | 1067 | 3.40 | .95    | 1170 | 3.73 | 1.00   |  |
| Muktagachha | 25         | .06  | 1.22   | 48   | .10  | 1.05   | 88   | .18  | 1.20   |  |
| Nagarpur    | 549        | 1.87 | 1.35   | 350  | 1.29 | 1.30   | 450  | 1.65 | .80    |  |
| Parshuram   |            |      |        |      |      |        |      |      |        |  |
| Raipur      | -99        | .00  | -99.00 | 50   | .29  | .60    | -99  | .00  | -99.00 |  |
| Ramgati     | 600        | .93  | .85    | 600  | .94  | .92    | 1000 | 1.57 | .85    |  |
| Sadar       | 131        | .15  | 1.16   | 102  | .12  | .85    | 209  | .24  | .95    |  |
| Savar       |            |      |        |      |      |        |      |      |        |  |
| Shahrasti   | 15         | .08  | .83    | 10   | .05  | .60    | 10   | .05  | .55    |  |
| Shakhipur   | -99        | .00  | -99.00 | -99  | .00  | -99.00 | 1    | .00  | 1.22   |  |
| Trisal      | 45         | .12  | 1.30   | 42   | .11  | 1.20   | 45   | .12  | 1.25   |  |

Data not provided for 6 upazilas

| THANA_NAME          | NCNAME   |       |       |      |       |       |      |       |       |  |
|---------------------|----------|-------|-------|------|-------|-------|------|-------|-------|--|
|                     | Kheshari |       |       |      |       |       |      |       |       |  |
|                     | A97      | PCA97 | YLD97 | A98  | PCA98 | YLD98 | A99  | PCA99 | YLD99 |  |
| Aditmari            | 6        | .02   | .30   | 40   | .15   | .32   | 27   | .10   | .35   |  |
| Agailjhara          | 45       | .39   | 1.21  | 65   | .69   | 1.15  | 75   | .67   | .88   |  |
| Atwari              |          |       |       |      |       |       |      |       |       |  |
| Bailadangi          |          |       |       |      |       |       |      |       |       |  |
| Baniachong          |          |       |       |      |       |       |      |       |       |  |
| Barisal             | 1050     | 4.83  | .86   | 1400 | 7.71  | 1.20  | 1200 | 4.65  | .55   |  |
| Bhola               | 1900     | 5.10  | 1.10  | 2350 | 6.15  | 1.00  | 2360 | 6.24  | .50   |  |
| Biral               | 18       | .05   | .51   | 19   | .05   | .48   | 19   | .05   | .52   |  |
| Bishwanath          |          |       |       |      |       |       |      |       |       |  |
| Boranuddin          | 400      | 1.14  | 1.30  | 590  | 1.61  | .80   | 650  | 1.68  | .75   |  |
| Chirirbandar        | 81       | .20   | .74   | 71   | .19   | .76   | 57   | .14   | .74   |  |
| Dautlatpur          | 180      | .72   | .86   | 136  | .54   | .84   | 117  | .49   | .84   |  |
| Debigani            | 19       | .05   | .75   | 9    | .02   | .72   | 250  | .58   | .75   |  |
| Gaurnadi            | 275      | 2.51  | .77   | 300  | 2.90  | .70   | 210  | 2.00  | .60   |  |
| Godabari            | 60       | .12   | .65   | 65   | .12   | .55   | 120  | .21   | .61   |  |
| Kaharol             | 60       | .21   | .64   | 65   | .22   | .68   | 74   | .25   | .65   |  |
| Kaliganj            | 5        | .02   | 1.50  | 0    | .00   | .00   | 0    | .00   | .00   |  |
| Lalmanirhat         | 23       | .06   | .75   | 30   | .08   | .80   | 22   | .07   | .76   |  |
| Menendiganj         | 1122     | 4.54  | 1.02  | 948  | 2.63  | 1.10  | 1062 | 3.27  | 1.00  |  |
| Mohanpur            | 58       | .28   | 2.00  | 75   | .37   | 1.00  | 90   | .49   | .90   |  |
| Naogaon sadar       | 58       | .18   | .91   | 50   | .16   | .92   | 60   | .18   | .91   |  |
| Porsha              |          |       |       |      |       |       |      |       |       |  |
| Rajibpur (Dhusmara) | 90       | .74   | .90   | 90   | .74   | .90   | 125  | 1.01  | .89   |  |
| Rajnagar            | 1        | .00   | .56   | 1    | .00   | .45   | 2    | .01   | .46   |  |
| Singair             | 626      | 2.41  | 1.30  | 772  | 2.50  | 1.40  | 874  | 2.83  | 1.48  |  |

Data not provided for 5  
Upendra

| THANA_NAME     | CODE VARIA |      |       |      |      |       |      |       |      |  |
|----------------|------------|------|-------|------|------|-------|------|-------|------|--|
|                | Kheshat    |      |       |      |      |       |      |       |      |  |
|                | AR97       | P97  | YLD97 | AR98 | P98  | YLD98 | AR99 | YLD99 | P99  |  |
| Bagerhat Sadar | 221        | 1.52 | 7     | 245  | 1.29 | 800   | 146  | 763   | .80  |  |
| Barhatta       | 22         | .10  | 1100  | 30   | .12  | 1090  | 53   | 1140  | .18  |  |
| Batiaghata     | 51         | .34  | 934   | 10   | .07  | 950   | 11   | 949   | .08  |  |
| Bera           | 1190       | 6.38 | 810   | 1200 | 6.57 | 720   | 1230 | 456   | 6.26 |  |
| Bheramara      | 140        | 1.02 | 1300  | 143  | .97  | 306   | 138  | 1311  | .91  |  |
| Daulatpur      | 180        | .48  | 1320  | 144  | .35  | 1447  | 141  | 1499  | .34  |  |
| Dumuria        | 41         | .12  | 1112  | 39   | .12  | 1105  | 30   | 1111  | .10  |  |
| Durgapur       | 2          | .01  | 1000  | 5    | .02  | 1000  | 5    | 1000  | .02  |  |
| Harinakundu    | 320        | 1.31 | 760   | 240  | .99  | 750   | 150  | 740   | .50  |  |
| Hanawardi      | 1725       | 7.25 | 1370  | 1450 | 5.77 | 1290  | 1275 | 1322  | 5.07 |  |
| Hitaldaha      | 225        | .42  | 1239  | 212  | .38  | 1111  | 200  | 1495  | .36  |  |
| Kendua         | 20         | .06  | 1200  | 20   | .05  | 1100  | 15   | 1000  | .04  |  |
| Kushtia Sadar  | 170        | .52  | 1650  | 166  | .48  | 1790  | 176  | 1667  | .54  |  |
| Maheshpur      | 120        | .27  | 1360  | 162  | .36  | 1200  | 116  | 1190  | .25  |  |
| Mirpur         | 890        | 3.39 | 1802  | 877  | 3.34 | 1820  | 846  | 1721  | 3.31 |  |
| Mollahat       | 35         | .19  | 3000  | 39   | .14  | 2889  | 38   | 3137  | .22  |  |
| Nachol         | 590        | 2.11 | 762   | 570  | 2.10 | 911   | 540  | 800   | 1.80 |  |
| Nawabbanj      | 925        | 2.60 | 810   | 1200 | 3.22 | 840   | 937  | 870   | 2.43 |  |
| Paikgachha     | 32         | .15  | 1235  | 29   | .12  | 1343  | 32   | 1284  | .87  |  |
| Purbadhala     | 40         | .12  | 800   | 45   | .13  | 750   | 50   | 800   | .13  |  |
| Rampal         |            |      |       |      |      |       |      |       |      |  |
| Ramu           |            |      |       |      |      |       |      |       |      |  |
| Santhia        | 2080       | 5.95 | 1385  | 1965 | 4.84 | 1285  | 1850 | 1334  | 4.46 |  |
| Sarankhola     | 225        | 3.27 | 990   | 250  | 3.34 | 1160  | 265  | 941   | 3.79 |  |
| Shibganj       | 870        | 2.65 | 800   | 650  | 1.32 | 800   | 750  | 820   | 1.69 |  |
| Sujanagar      | 550        | 2.56 | 787   | 650  | 3.14 | 717   | 432  | 925   | 1.94 |  |
| Terakhada      | 50         | .41  | 1340  | 75   | .49  | 1400  | 73   | 1400  | .69  |  |

Data not provided for - Ujirgola



## A Glimps on Benefit-Cost Ratios of Selected Crops 1998/99 Growing in Different Upazilas

Dr. Shamsul Alam  
Socio-Economic Specialist  
GIS Project at BARC

Costs and return data by crops were collected for each of the 200 upazilas by the four ARMP/GIS Teams for the year 1998/99. Costs and return data for the following crops were collected:

Banana, Garlic, Groundnut, HYV Aus, HYV Boro, HYV T.Aman, HYV Wheat, and Jute (Tossa). Benefit cost ratios of common crops reported by the Teams were selected for discussion. The aim of this reporting is to assess the level of returns relative to costs of inputs (cash and home supplied) and check whether extreme magnitudes emerge of the information provided. Teams are expected to revise extreme/unreliable figures where detected.

For estimation of Benefit-Cost ratios, costs were imputed on market prices prevailing in the area (for purchased inputs as well as home supplied inputs). Cost items included total human labour (both hired and own labour), total animal labour/tiller services, seed/seedlings costs, chemicals (fertilizers and pesticides), manures and irrigation costs. Farm returns (benefits) included output value of main product and by-product. Benefit cost thus derived indicates farm returns (gross) relative to costs (except opportunity costs of land). Findings are discussed briefly cropwise and Team-wise.

### 1. Banana (for each crop, Tables appended)

**BAU Team 1 :** Reported banana cultivation for 7 upazilas (no data available for rest of the upazilas). B/C ratio for 7 upazilas (commercially cultivated bananas) ranged between 4.82 to 8.09. B/C ratio reveals a high return for Banana cultivation. Benefit is 8 times then costs should be considered quite locative, of course, area under cultivation of banana has been growing exponentially.

**BAU Team 2 :** Reported banana cultivation for 21 upazilas (out of 50 in each Team). Benefits ranged from 0.93 (ratio) to 12.41 (Monohardi). Considering the comparison of three Teams, B/C ratios of 12.11 and 10.39 seem (Meherpur Sadar) certainly very high figures (conversely, costs could be so thin than the benefits!).

**BRRI Team :** Reported banana cultivation for 38 Upazilas. B/C ratio ranged between 2.05 to 6.42 (the range is modest as reported by this Team).

**DU Team** not reported banana cultivation for any Upazila

### 2. Garlic

Zohir (1993) estimated Benefit-Cost ratio of garlic in his study area as 2.68 (Value of product and by-products over full costs of production).

**BAU Team 1 :** Reported garlic cultivation for 7 Upazilas (data not reported for rest of the Upazilas). B/C ratio per unit of area (hectare) ranged between 4.82 (Joypurhat Sadar) to 8.09 (Chandpur Sadar). **Eight times benefit of costs (species group) seems certainly higher while the country is dependent on import of this crop annually.**

**BAU Team 2 :** Reported garlic cultivation for 21 upazilas out of 50 Upazilas for which data were collected. B/C ratio ranged between 2.85 (Nagarpur) to 4.57 (Bhaluka).

**BRRRI Team :** Reported range has been 2.07 (Bhola Sadar) to 3.34 (Bochagonj) and depicted lower range of benefit level than the BAU Teams. BRRRI reported garlic cultivation for 18 Upazilas.

**DU Team :** Reported garlic cultivation for only 10 upazilas out of 50 Upazilas. B/C ratio ranged 1.87 to 6.70. Garlic cultivation seems highly profitable as the B/C ratio signifies.

### 3. Groundnut

Zohir's (1993) estimated B/C ratio for this crop has been 1.47.

**BAU Team 1 :** Reported groundnut cultivation for 24 Upazilas where the B/C ratio ranges from 1.96 (Austagram) to 6.47 (Chuadanga Sadar). Groundnut cultivation is profitable at least about twice to six times than the cost.

**BAU Team 2 :** Reported groundnut cultivation for 36 upazilas where profitability (B/C ratio) ranges from 0.65 (Bandarban Sadar) to 9.78. Practically, profit more than 3-4 times of cost for any crop should be considered high.

B/C ratio reported higher by both BAU 1 and BAU Team 2 than BRRRI Team. BRRRI Team reported groundnut cultivation for 28 Upazilas. DU Team reported the least number of Upazilas (3 only) cultivating groundnut. BRRRI Team findings on B/C ratio ranges from 1.05 to 2.02 (i.e. benefit not exceeding twice than the cost) and seem reasonable.

**DU Team :** reported B/C ratio has been 2.03 (Kazipur) to 7.62 (Brahminbaria). There is sharp difference between BRRRI Team B/C ratios with other Teams. So high profitabilities (say, more than 3-4 times for oilseeds) may remain as suspect in Bangladesh's farming environment.

### 4. HYV Boro

Zohir's (1993) estimated B/C ratio for this crop has been 1.50.

**BAU Team 1 :** Reported HYV Boro cultivation for all the upazilas except Hatia in 1999. Computed B/C ratio emerged from 1.21 (Pirojpur Sadar) to 2.18 (Hathazari). In the reported year, HYV Boro cultivation encountered no losses, profitability exceeded double of the costs for three Upazilas.



**BAU Team 2 :** Reported cultivation of HYV Boro for 49 Upazilas (Amtali Upazila no information provided). In Boro HYV cultivation loss incurred in 7 Upazilas out of 49. The highest B/C ratio is 1.80 (Madhupur Upazila).

**BRRI Team 3 :** provided information for all the Upazilas. In HYV Boro cultivation the only loss incurring Upazila was Kishoregonj. Benefit/Cost ratio ranged between 1.21 to 1.95.

**DU Team :** not reported information for 5 upazilas (Why?, upazilas are Daulatpur, Kathalia, Kendua, Purbadhala and Sarankhola).

## 5. HYV Aus

Zohir's (1993) estimated B/C ratio for this crop has been 1.47.

**BAU Team 1 :** Reported information for all the upazilas. B/C/ ratio has been less than 1 in 2 upazilas and others ranged between 1.04 to 1.90.

**BAU Team-2:** Reported information for 48 upazilas out of 50. Three upazilas incurred losses in cultivating HYV Aus. Benefits doubled in 5 upazilas.

**BRRI Team :** Reported HYV Aus cultivation except one Upazila (Daulatpur). HYV Aus cultivation incurred losses in 3 Upazilas. B/C ratio was greater than 1 and less than 2 in all other upazilas.

**DU Team :** Reported HYV Aus cultivation for 39 upazilas and no calculation could be arrived at for 11 upazilas (must be checked whether data entries are correct). B/C ratio received doubled in 4 upazilas and tripled in 1 upazila Ullapara profitability now-a days may not be so high with HYV Aus cultivation and must be checked).

## 6. Local Aus

Zohir's (1993) estimated B/C ratio for this crop has been 1.15.

**BAU Team 1 :** not reported Local Aus cultivation for 8 upazilas. **BAU Team 2** for 6 upazilas. **BRRI Team** for 11 upazilas and **DU Team** for 8 upazilas. DU Team reported B/C ratio of Local Aus 15.54 which must be absurd and corrected. Doubling of benefits for some of the upazilas was reported by every Team except BRRI.

## 7. HYV Aman

Zohir's (1993) estimated B/C ratio for this crop has been 1.61.

**BAU Team 1 :** not reported cultivation of HYV Aman for 2 upazilas (Hatia and Srinagar). **BAU Team 2** reported cultivation of HYV T.Aman for all the upazilas. **BRRI Team** reported for 48 upazilas (Bishawnath and Daulatpur left-out) and **DU Team** reported HYV T.Aman cultivation for 44 upazilas (6 leftout). B/C ratio is more than 1 for every upazila and doubled for 4 upazilas as of BAU Team 1. **BAU Team 2** found losses in HYV Aman cultivation for 3 upazilas and double benefits accrued to 2 upazilas.



BRR Team observed losses in 2 upazilas and nowhere benefits got doubled (between 1 and 2) and the results seem acceptable. DU Team reported losses in 3 upazilas and reported benefits doubled than the cost in 9 upazilas.

## 8. HYV Wheat

Zohir (1993) estimated B/C ratio for this crop has been 1.13.

**BAU Team 1 :** Reported cultivation of wheat for 39 upazilas and B/C ratio of 17.33 in HYV wheat cultivation in Sharupkhati must be considered absurd and correction should be done by field visit.

**BAU Team 2 :** Reported wheat cultivation for 46 upazilas. Costs of wheat cultivation surpassed benefits in 15 upazilas and nowhere benefits got doubled (benefits of wheat cultivation got squeezed now a-days as researchers observed in micro-studies). BRR Team reported losses in wheat cultivation for 2 upazilas and none depicted benefits as twice of the costs. Estimation for this crop seems reasonable.

**DU Team :** Reported losses in wheat cultivation for 5 upazilas and benefits achieved doubled than the costs in 8 upazilas (a bit different results than other three Teams).

## 9. Jute Tossa

Zohir's (1993) estimated B/C ratio has been 1.29 for jute olitorius.

Jute Tossa cultivation has been reported for 28 upazilas by BAU Team 1, 38 upazilas by BAU Team 2, none reported by BRR (why?) and 6 upazilas by DU Team. BAU Team 1 reported losses in one upazila and in others benefits ranged between 1 and less than 2. BAU Team 2 reported losses in jute Tossa cultivation for 9 upazilas and benefits exhibited 3 times of costs (is this feasible for jute crop while the crop is considered a dying crop in 4 upazilas). The cases showing 3-4 times benefits of costs for jute must be re-checked.

**DU Team :** Reported loss in jute (tossa) cultivation for 1 upazila and B/C ratios doubled for 4 upazilas.

All existing B/C ratios should be corrected by field visits wherever necessary.

## References :

Zohir, S. Zaid (1993). Input-output coefficients in crop production Activities in Bangladesh-with results of relative financial profitabilities at farm level. Working paper No. 1 BIDS.

Copy for information and necessary actions -

- (1) MD AERS Division, BARC
- (2) NPD GIS Project, BARC
- (3) Dr. Jahannara Khan, PSO, AERS Division, BARC.

## Yields under major crops-BAU TEAM - I

| DIST-NAME    | THANA-NAME         | Banana | Chickpea | Cotton | Garlic | Groundnut | Hybrid Aman | Hybrid Boro | HYV Aus | HYV Boro | HYV T <sub>1</sub> Aman | HYV Wheat | June (Deshi) | June (Tossa) | Lenfil | Local Aus |
|--------------|--------------------|--------|----------|--------|--------|-----------|-------------|-------------|---------|----------|-------------------------|-----------|--------------|--------------|--------|-----------|
| BARGUNA      | BARGUNA SADAR      |        | 1308     |        |        | 1652      |             |             | 3402    | 4000     | 2841                    |           |              |              | 922    | 1869      |
| BARGUNA      | PAITHARGHATA       |        |          |        |        | 1568      |             |             | 2800    | 4106     | 2986                    |           |              |              | 709    | 1941      |
| BOGRA        | BOGRA SADAR        | 23331  |          |        |        |           |             |             | 2912    | 4666     | 3546                    | 2426      |              | 1792         | 747    |           |
| BOGRA        | GABTALI            |        |          |        |        |           |             |             | 2986    | 4480     | 3061                    | 2352      | 1941         |              | 821    | 2240      |
| CHANDPUR     | CHANDPUR SADAR     | 29904  | 972      |        | 2990   | 1196      | 4859        | 5600        | 1944    | 4672     | 2243                    | 2056      |              | 1420         | 972    | 1420      |
| CHANDPUR     | MAILAB             |        |          |        |        |           |             |             | 2986    | 5040     | 3360                    | 2240      | 2613         |              | 709    | 2053      |
| CHITAGONG    | ANOWARA            |        |          |        |        | 1493      |             |             | 2904    | 4112     | 3364                    |           |              |              | 673    |           |
| CHITAGONG    | HATHAZARI          |        |          |        |        | 1307      |             |             | 2426    | 4480     | 2986                    |           |              |              | 933    | 1680      |
| CHITAGONG    | PATIA              |        |          |        |        |           |             |             | 2426    | 4293     | 2613                    |           |              |              | 933    | 1755      |
| CHITAGONG    | RANGUNIA           |        |          |        |        |           |             |             | 2990    | 3738     | 3551                    |           |              |              | 411    |           |
| CHUADANGA    | CHUADANGA SADAR    | 19064  | 635      |        | 3364   | 2318      |             |             | 1682    | 4486     | 2990                    | 2355      |              | 1869         | 934    | 1308      |
| CHUADANGA    | ALAMDANGA          |        | 821      |        | 4106   | 1866      |             |             | 3360    | 4666     | 3733                    | 2389      |              | 2053         | 672    | 2240      |
| CHOKSABAZAR  | CHOKORIA           |        |          |        |        | 2318      |             |             | 3551    | 4224     | 3551                    |           |              |              |        |           |
| FARIAPUR     | FARIAPUR SADAR     |        | 1121     |        | 4112   | 1308      |             |             | 3215    | 4635     | 3215                    | 2617      |              | 1383         | 598    | 1308      |
| FARIAPUR     | SADARPUR           |        | 971      |        | 4106   |           |             |             | 3546    | 5413     | 3845                    | 2314      |              | 2240         | 672    | 2240      |
| SENI         | CHHAGALNAYA        |        |          |        |        | 971       |             |             | 2900    | 4106     | 3733                    | 2240      |              |              | 747    | 2053      |
| GOPALGONJ    | SLAMPUR            |        | 784      | 672    |        |           |             |             | 2800    | 4666     | 3733                    | 2352      |              |              | 2426   | 2016      |
| GOPALGONJ    | MUKSHEDPUR         |        |          |        | 4037   |           |             |             | 3289    | 5757     | 3738                    | 2056      |              | 2056         | 635    | 1495      |
| JAMALPUR     | JAMALPUR SADAR     |        |          |        | 1493   | 1307      | 6719        |             | 3733    | 4853     | 3920                    | 2240      |              | 2426         | 560    | 2986      |
| JAMALPUR     | SHARSABARI         |        | 672      |        | 3733   | 1307      |             |             | 3546    | 5413     | 3733                    | 2240      |              | 2426         | 560    | 2240      |
| JAMALPUR     | MELANDAHIA         |        | 1047     |        | 3177   |           | 6168        |             | 2990    | 5046     | 3364                    | 2804      |              | 2430         | 934    | 3177      |
| JOYPURHAT    | JOYPURHAT SADAR    | 13066  |          | 971    | 3920   |           |             |             | 3173    | 5413     | 3546                    | 2090      |              | 2053         | 1120   |           |
| KHAGRACHHARI | KHAGRACHHARI SADAR | 18690  | 673      |        |        |           |             |             | 2243    | 3177     | 2617                    | 2243      |              |              | 748    | 1308      |
| KISHOREGANJ  | HOSAINPUR          |        | 359      |        | 3733   | 1866      | 5533        |             | 3173    | 5413     | 3733                    | 2240      | 1680         | 2090         | 672    | 2240      |
| KISHOREGANJ  | AUSTAGRAM          |        |          |        |        | 1120      |             |             | 3173    | 4853     | 3920                    | 2240      |              |              | 747    | 2240      |
| LAXMIPUR     | LAXMIPUR SADAR     |        | 359      |        | 4106   |           |             |             | 2800    | 4666     | 3360                    | 2426      |              |              | 747    | 1866      |
| MAGURA       | MAGURA SADAR       |        | 1084     |        | 2990   |           | 5607        |             | 2766    | 4635     | 3551                    | 2168      |              | 1794         | 897    | 1682      |
| MAGURA       | SHAIKHA            | 18690  | 598      |        | 3738   |           |             |             | 2804    | 5046     | 3738                    | 2430      |              | 1682         | 523    | 1570      |
| MEHERPUR     | GANGNI             |        |          |        |        | 1196      |             |             | 2804    | 4672     | 3551                    | 2056      |              | 1981         | 748    | 1794      |
| MYMENSINGH   | MYMENSINGH SADAR   | 2800   |          |        | 3920   |           |             |             | 2986    | 4853     | 3546                    | 2240      | 1493         |              | 672    | 2053      |
| MYMENSINGH   | GOURPUR            |        | 971      |        | 5413   |           | 5973        |             | 3173    | 4853     | 3733                    | 2800      |              | 2426         | 896    | 2986      |
| MYMENSINGH   | HALUAGHAT          |        |          |        |        | 1420      |             |             | 3327    | 5084     | 3813                    | 2168      |              | 1682         | 1009   | 1682      |
| MYMENSINGH   | SRINAGAR           |        |          |        | 4486   | 2168      | 5981        |             | 3177    | 4859     |                         | 2093      |              | 1869         | 748    | 2467      |
| NOAKHALI     | HATIA              |        | 1120     |        |        | 971       |             |             | 2800    |          |                         |           |              |              | 821    |           |
| NOAKHALI     | SENBAG             |        |          |        | 3476   |           |             |             | 2804    | 4187     | 3177                    | 2355      |              |              | 673    | 1682      |
| NOISHINGDI   | RAIPURA            |        | 934      |        | 3925   | 1495      |             |             | 3215    | 4486     | 3551                    | 2430      |              |              | 673    | 1570      |
| PIROJPUR     | PIROJPUR SADAR     |        |          | 821    |        | 1493      |             |             | 2800    | 5040     | 3360                    | 2426      |              |              | 672    | 1792      |
| PIROJPUR     | SHARUPKATI         |        |          |        |        |           |             |             | 2613    | 4666     | 3173                    | 2240      |              |              |        | 1680      |
| RANGAMATI    | BOALMARI           |        | 933      |        | 3920   |           |             |             | 3658    | 5525     | 3658                    | 2426      |              | 1680         | 560    | 2314      |
| RANGAMATI    | KAPTAI             |        |          |        |        |           |             |             | 2318    | 2617     | 2542                    |           |              |              | 561    | 1495      |
| RANGAMATI    | RAJASTHAU          |        |          |        |        |           |             |             | 2243    | 2617     | 2617                    |           |              |              | 561    | 1420      |
| SARIATPUR    | NARIA              |        | 784      | 859    | 4106   |           | 6159        |             | 3658    | 5413     | 3546                    | 2352      |              | 2240         | 672    | 2426      |
| SARIATPUR    | PALONG             | 15099  | 860      |        |        |           | 5981        |             | 2617    | 4112     | 2990                    | 2617      |              | 1495         | 748    | 1308      |
| SATKHIRA     | SATKHIRA SADAR     |        |          |        |        |           |             |             | 3289    | 4486     | 3663                    | 2243      |              | 1906         | 822    |           |
| SATKHIRA     | DEBHATA            |        |          |        |        |           |             |             | 2990    | 4486     | 3813                    | 2093      |              | 1869         | 934    |           |
| SHERPUR      | SHERPUR SADAR      |        | 860      |        | 3177   | 1869      |             |             | 2990    | 4859     | 3588                    | 2617      |              | 1495         | 822    | 1869      |
| SHERPUR      | JHENAI GATI        |        | 897      |        |        | 1533      |             |             | 3140    | 5046     | 3140                    | 2430      |              | 1794         | 822    | 1383      |
| SUNAMGONJ    | SUNAMGONJ SADAR    |        | 1008     |        | 5226   | 1120      |             |             | 2800    | 4666     | 3733                    | 2240      | 2240         |              | 747    | 1680      |
| SUNAMGONJ    | BISHWANBARPUR      |        | 822      |        | 4112   | 1495      |             |             | 2990    | 4486     | 3177                    | 2243      |              | 2056         | 897    | 1869      |
| SUNAMGONJ    | JAGANNATHPUR       |        | 821      |        | 4106   |           | 5600        |             | 2613    | 4554     | 3546                    | 2426      |              | 2240         | 672    | 2240      |
|              |                    | 17693  | 977      | 234    | 5619   | 1516      | 5619        | 5925        | 2946    | 4604     | 3385                    | 2325      | 2034         | 1953         | 749    | 1720      |



## Yields under major crops-BAU TEAM - I

| DIST-NAME   | THANA-NAME       | Local B | Aman | Local Boro | Local T | Aman | Madze | Mungbean | Mustard | Onion | Potato | Sesame | Sugarcane |
|-------------|------------------|---------|------|------------|---------|------|-------|----------|---------|-------|--------|--------|-----------|
| BARGUNA     | BARGUNA SADAR    | 1794    |      | 1794       | 1869    | 2056 | 822   | 822      | 1009    |       |        |        | 47547     |
| BARGUNA     | PATHARGHATA      |         |      |            | 2053    |      | 747   | 747      | 821     |       | 20532  |        | 44796     |
| BOGRA       | BOGRA SADAR      |         |      |            | 2986    | 2240 |       |          | 1866    |       | 17918  |        |           |
| BOGRA       | GABTALI          |         |      | 1866       | 2053    |      | 709   | 709      | 933     |       | 14932  |        | 27251     |
| CHANDPUR    | CHANDPUR SADAR   |         | 1495 | 2542       | 1682    | 4299 | 1009  | 860      | 6654    | 6654  | 15513  |        | 25792     |
| CHANDPUR    | MATLAB           |         | 2128 | 2053       | 2240    | 3173 | 921   | 747      | 3920    | 16798 |        |        | 25384     |
| CHITTAGONG  | ANOWARA          |         |      |            | 1869    |      | 523   | 748      |         | 15700 |        |        | 46725     |
| CHITTAGONG  | HATHAZARI        |         |      |            | 1680    |      | 747   | 597      |         | 11759 |        |        | 48529     |
| CHITTAGONG  | PATIA            |         |      |            | 1866    |      | 747   |          | 8959    |       |        |        | 49462     |
| CHITTAGONG  | RANGUNIA         |         |      |            | 1869    |      | 523   | 822      |         | 15700 |        |        | 46725     |
| CHITTAGONG  | CHUADANGA SADAR  |         | 1682 |            | 1794    | 3364 | 673   | 748      | 6728    | 16821 |        | 561    | 59808     |
| CHITTAGONG  | ALAMDANGA        |         | 2016 |            | 2240    | 1866 | 672   | 933      | 8399    | 15679 |        | 635    | 55248     |
| COX'S BAZAR | CHOKORIA         |         |      |            | 2504    | 5084 |       | 1271     |         | 15700 |        |        | 57752     |
| FARIDPUR    | FARIDPUR SADAR   |         | 1121 | 2131       | 2430    |      | 673   | 934      | 8410    | 16447 |        |        | 35511     |
| FARIDPUR    | SADARPUR         |         | 1680 | 1568       | 2202    |      | 747   | 933      | 9556    | 15865 |        |        | 59728     |
| FENI        | CHHAGALNAYA      |         | 2240 |            |         |      | 672   | 971      |         | 16425 |        |        |           |
| GOPALGONJ   | ISLAMPUR         |         | 2240 | 2240       | 2426    | 2016 | 635   |          | 9332    | 15492 |        |        | 63461     |
| GOPALGONJ   | MUKSHEDPUR       |         | 1682 | 2243       | 2430    | 2243 | 449   | 822      |         | 15326 |        |        |           |
| JAMALPUR    | JAMALPUR SADAR   |         | 2613 | 2314       | 2800    | 2128 | 747   | 1120     | 2986    | 17918 |        |        | 24264     |
| JAMALPUR    | SHARISABARI      |         | 1866 | 1866       | 2240    | 2128 | 672   | 933      | 9146    | 15679 |        |        | 50396     |
| JAMALPUR    | MELANDAHA        |         | 1869 | 3551       | 2243    | 4672 | 673   | 1308     | 7476    | 16634 |        |        | 24671     |
| JOYPOURHAT  | JOYPOURHAT SADAR |         | 1680 |            | 2240    | 1792 |       |          | 9332    | 14932 |        | 672    | 44796     |
| KHAGRA      | KHAGRA SADAR     |         |      |            | 1682    |      | 561   | 972      |         | 13083 |        |        | 42052     |
| KISHOREGANJ | HOSSAINPUR       |         | 1680 | 1866       | 2053    |      | 672   | 821      | 8959    | 15679 |        |        |           |
| KISHOREGANJ | AUSTAGRAM        |         |      | 2426       | 2800    | 1941 | 821   | 559      |         | 14932 |        |        | 23331     |
| LAXMIPUR    | LAXMIPUR SADAR   |         | 1978 | 3173       | 2240    | 4293 | 672   | 1120     | 8959    | 15492 |        |        |           |
| MAGURA      | MAGURA SADAR     |         | 1607 |            | 1794    |      | 934   | 972      | 4672    | 14952 |        |        |           |
| MAGURA      | SHAIKHA          |         | 2056 |            | 2804    | 3177 | 561   | 748      | 6728    | 16073 |        |        | 59808     |
| MEHERPUR    | GANGNI           |         | 1682 | 2168       | 2243    | 2430 | 673   | 1196     |         | 15513 |        |        | 46725     |
| MYMENSINGH  | MYMENSINGH SADAR |         |      | 2426       | 2240    |      | 747   | 933      | 8213    | 11946 |        |        |           |
| MYMENSINGH  | GOURPUR          |         | 2986 | 3546       | 3173    | 1866 | 747   | 6159     | 8213    | 18665 |        |        | 24264     |
| MYMENSINGH  | HALUAGHAT        |         |      | 2430       | 2019    | 3177 | 1047  | 860      |         | 15886 |        | 934    | 46725     |
| MYMENSINGH  | SRINAGAR         |         | 1495 | 1906       |         |      |       | 1084     | 8037    | 17008 |        |        | 47099     |
| NOAKHALI    | HATIA            |         | 1866 |            |         |      | 747   | 1120     |         | 13066 |        |        |           |
| NOAKHALI    | SENRAG           |         |      | 1794       | 2168    |      | 822   | 748      | 785     | 16073 |        | 972    |           |
| NOAKHALI    | RAIPURA          |         |      | 1794       | 2168    |      | 710   | 860      | 7850    | 15326 |        | 972    | 46725     |
| PIROJPUR    | PIROJPUR SADAR   |         | 1866 | 3173       | 2613    |      | 971   |          |         | 9332  |        | 821    | 46662     |
| PIROJPUR    | SHARUPKATI       |         | 1493 | 2613       | 2053    | 3360 | 635   | 560      |         | 15492 |        |        | 52262     |
| RANGAMATI   | BOALMARI         |         | 1419 | 1493       | 2314    |      | 672   | 933      | 9519    | 16052 |        |        | 33597     |
| RANGAMATI   | KAPTAI           |         |      |            | 1682    |      | 449   | 1047     |         | 13083 |        |        | 44856     |
| RANGAMATI   | RAJASTHALI       |         |      |            | 1682    |      | 374   | 935      |         | 13083 |        |        | 43922     |
| SARIATPUR   | NARIA            |         | 1680 | 1866       | 2240    |      | 672   |          | 8586    |       |        |        |           |
| SARIATPUR   | PALONG           |         | 1869 | 2430       | 1944    | 4299 | 785   | 1121     |         | 15896 |        |        | 32708     |
| SATKHIRA    | SATKHIRA SADAR   |         | 2056 |            | 2093    |      | 710   | 860      |         | 15896 |        |        | 39436     |
| SATKHIRA    | DEBHATA          |         |      |            | 2990    |      |       | 822      |         |       |        |        |           |
| SHERPUR     | SHERPUR SADAR    |         | 1869 | 2056       | 2056    | 2504 |       | 1009     | 7850    | 11027 |        | 748    | 44856     |
| SHERPUR     | JHENAIKATI       |         |      | 2318       | 1832    | 2280 | 561   | 822      |         | 15700 |        | 561    | 46725     |
| SUNAMGONJ   | SUNAMGONJ SADAR  |         | 1680 | 2426       | 2240    |      | 672   | 1008     | 7839    | 15305 |        |        |           |
| SUNAMGONJ   | BISHWAMPUR       |         | 1682 | 2617       | 2056    |      | 748   | 934      |         | 15700 |        |        |           |
| SUNAMGONJ   | JAGANNATHPUR     |         | 2240 | 2053       | 2314    |      | 672   | 747      | 8586    | 14932 |        |        |           |

1861 2263 2196 2886 702 1058 7464 15232 766 43322



Yield of different crops (Kg/Ha)-BAU-II

| CODE-VAR         |          |        |           |         |          |             |           |              |        |           |               |            |               |       |          |         |       |        |        |           |
|------------------|----------|--------|-----------|---------|----------|-------------|-----------|--------------|--------|-----------|---------------|------------|---------------|-------|----------|---------|-------|--------|--------|-----------|
| Banana           | Chickpea | Garlic | Groundnut | HYV Aus | HYV Boro | HYV T. Aman | HYV Wheat | Jute (Tossa) | Lentil | Local Aus | Local B. Aman | Local Boro | Local T. Aman | Maize | Mungbeen | Mustard | Onion | Potato | Sesame | Sugarcane |
| YIELD            | YIELD    | YIELD  | YIELD     | YIELD   | YIELD    | YIELD       | YIELD     | YIELD        | YIELD  | YIELD     | YIELD         | YIELD      | YIELD         | YIELD | YIELD    | YIELD   | YIELD | YIELD  | YIELD  | YIELD     |
|                  | 930      |        | 1900      | 2000    |          | 2000        |           |              | 780    | 1250      |               |            | 1200          | 4500  | 580      | 900     |       | 12000  |        |           |
| Amtali           |          | 3000   | 1250      | 1800    | 3100     | 2500        | 2200      | 1700         | 700    | 750       | 800           | 1800       | 1400          | 4500  | 600      | 600     | 3600  | 18000  | 1250   | 54000     |
| Baliakandi       |          |        |           |         |          |             |           |              |        |           |               |            |               |       |          |         |       |        |        |           |
| Bandarban Sadar  |          |        | 1500      | 2200    | 2950     | 2780        |           |              | 800    | 1070      |               | 2100       | 1270          | 2000  | 700      | 1000    |       | 14000  | 1000   | 50000     |
| Basail           | 11100    |        | 200       | 2580    | 5400     | 4300        | 2900      | 2000         | 900    | 1620      |               |            |               |       |          | 710     |       | 10500  |        |           |
| Bauphal          | 10000    | 1100   | 1000      | 3340    | 4070     | 2790        | 2500      |              | 900    | 1670      |               | 1700       | 2220          | 3270  | 600      | 950     |       | 12000  |        | 35000     |
| Begumegani       |          |        |           | 2000    | 3000     | 2650        | 3500      | 2500         |        | 900       |               | 1750       | 1810          | 3500  |          | 750     |       | 15000  |        |           |
| Bhaluka          |          | 3650   | 2200      | 2450    | 4950     | 3900        | 2500      | 8500         | 800    | 1800      |               | 2850       | 2100          |       |          | 810     | 3400  | 15000  |        |           |
| Bhuapur          | 12000    |        | 1900      | 2050    | 4500     | 2500        | 2300      | 6500         | 800    | 1575      |               |            |               |       |          | 850     | 3100  | 16000  |        |           |
| Damurhuda        | 28000    | 600    | 800       | 2500    | 4000     | 3000        | 2450      | 2400         | 750    | 1260      | 1000          | 1300       | 1200          | 6500  | 500      | 1000    | 3150  | 20000  | 650    | 63000     |
| Delduar          | 15600    |        | 2300      | 2150    | 5300     | 4200        | 3000      | 2200         |        | 1650      | 1450          | 2500       | 2350          |       |          | 720     | 3900  | 168000 |        |           |
| Feni Sadar       |          |        |           | 1580    | 4970     | 2750        | 2500      |              | 675    | 1000      |               | 2200       | 1200          | 2000  | 600      | 1190    |       | 14000  |        | 45000     |
| Ghatail          | 12500    |        |           | 2250    | 5300     | 4380        | 2300      | 2100         |        | 1800      |               |            |               |       |          | 1050    |       | 15500  |        |           |
| Gopalpur         | 14500    |        | 3300      | 2100    | 2250     | 5100        | 4500      | 2250         | 7800   | 910       | 1875          |            | 2175          | 2300  |          | 950     | 4000  | 16500  |        |           |
| Gualanda         |          | 740    | 2600      | 1380    | 3050     | 5100        | 3530      | 1210         | 9800   | 640       | 1400          | 1580       | 1350          | 3500  | 680      | 680     | 3250  | 12000  | 700    | 42000     |
| Jibannagar       | 15000    | 500    | 3200      | 1500    | 2770     | 4570        | 4560      | 2220         | 3000   | 1050      | 1410          | 2490       | 2900          | 6000  | 1150     | 1150    | 3250  | 16500  | 1300   | 45000     |
| Kalai            |          |        | 2400      |         | 2950     | 5430        | 4650      | 2450         | 2100   | 925       |               |            | 2150          |       |          | 895     | 3500  | 18500  |        |           |
| Kalapara         |          | 1150   |           |         | 2800     | 4000        | 3500      | 1850         |        | 1000      | 1250          |            | 1860          | 2280  | 850      | 850     |       | 11500  | 950    | 60000     |
| Kalaroa          |          | 840    |           |         |          | 3500        | 4040      | 1220         |        | 660       |               |            | 2550          |       |          | 780     |       | 18000  |        | 43000     |
| Kailhati         | 14500    |        | 1950      | 2100    | 4950     | 3150        | 2300      | 9200         | 900    | 1950      |               | 2250       | 2100          |       |          | 1000    |       | 17500  |        |           |
| Karimgani        | 16500    |        | 1800      | 2850    | 4450     | 3310        | 2350      | 8500         | 750    | 2012      |               | 2900       | 1920          |       |          | 8100    |       | 15000  |        |           |
| Kutubdia         |          |        |           |         | 3180     | 3080        | 3200      |              | 700    | 2300      |               | 1500       | 1880          |       |          |         |       | 8000   |        |           |
| Lohagara         | 28000    | 690    | 1100      | 2330    | 4500     | 3160        | 1800      | 1700         | 750    | 1010      | 1380          | 2480       | 1840          |       | 550      | 750     |       | 14000  | 700    | 3000      |
| Madaripur Sadar  |          | 500    | 2840      | 2250    | 2000     | 5000        | 2500      | 3500         | 850    | 1500      | 1500          | 1640       | 2100          |       | 800      | 780     | 3910  | 15000  |        | 45000     |
| Madhupur         | 12000    |        | 3500      |         | 3000     | 5500        | 4500      | 3000         | 9300   | 450       |               | 2800       |               |       |          | 500     | 3100  | 16000  |        | 45000     |
| Meherpur Sadar   | 42000    | 650    | 3000      | 1650    | 4400     | 5000        | 2420      | 2300         |        | 2000      | 1800          | 2800       | 2000          | 2830  | 550      | 1200    | 3550  | 18000  | 600    | 60000     |
| Mirzapur         | 14500    |        |           | 2100    | 2100     | 5200        | 3500      | 2250         | 9200   | 850       | 1850          | 3100       | 3050          |       |          | 890     |       | 17500  |        |           |
| Mohammadpur      |          | 845    |           | 1500    | 3250     | 4535        | 3520      | 1405         | 1650   | 830       | 1100          | 2000       | 3100          | 3450  | 750      | 975     |       | 15750  | 930    | 23400     |
| Monohordi        | 44000    |        | 3150      |         | 2200     | 3300        | 2700      | 2400         | 2000   |           | 1100          | 1400       | 1300          |       |          | 940     | 4000  | 14250  |        | 70000     |
| Muktachacha      | 16500    |        | 3700      | 1800    | 2850     | 4450        | 3310      | 2350         | 8500   | 750       | 1950          | 2900       | 1920          |       |          | 8100    | 4100  | 15000  |        |           |
| Munshigani Sadar |          |        |           | 1800    | 1350     | 5500        | 3250      | 2100         | 1900   | 750       | 1050          | 1400       | 1850          | 2100  |          | 1040    | 3800  | 20000  |        | 70000     |
| Nagarpur         | 13500    |        | 2600      | 2000    | 2800     | 4700        | 3200      | 2350         | 9500   | 850       | 1750          |            | 3200          | 2850  |          | 900     | 3120  | 18000  |        |           |
| Nakla            |          | 700    | 2600      | 2070    | 1900     | 3500        | 2410      | 2200         | 2100   | 780       | 1500          | 2000       | 1800          |       | 820      | 1200    | 4150  | 12000  |        | 51000     |
| Nandigram        |          |        |           |         | 2770     | 5000        | 3300      | 2350         | 2500   | 850       | 2350          |            | 2300          |       |          | 980     |       | 19500  |        |           |
| Panchibibi       |          |        | 3500      |         | 2850     | 5540        | 4500      | 2550         | 2500   | 900       |               |            | 2250          |       |          | 1000    | 3550  | 18400  |        |           |
| Parashuram       |          | 1000   |           | 2000    | 2870     | 4040        | 2810      | 3000         |        | 950       | 1470          |            | 1420          | 5000  | 1000     | 930     |       | 16000  |        |           |
| Patuakhali Sadar | 15000    |        |           |         | 2500     | 3850        | 2500      | 1750         |        | 1000      | 1700          |            | 1750          | 1400  |          | 850     |       | 14500  |        | 80000     |
| Raipur           |          | 350    | 1500      | 1950    | 2950     | 2120        | 1640      | 6000         | 650    | 1050      | 1660          | 1640       | 650           | 3000  | 500      | 710     |       | 15000  |        | 40000     |
| Rajoir           |          | 800    | 1750      |         |          | 5460        | 4050      | 2190         | 1800   | 850       | 1670          | 1950       | 1860          | 4850  |          | 780     | 4150  | 12850  |        |           |
| Ramgati          | 2850     | 600    | 1050      | 3100    | 4450     | 2680        | 1750      |              |        | 1800      |               |            | 2230          | 4500  | 550      | 500     |       | 11000  |        | 37500     |

Yield of different crops (Kg/Ha)-BAU-II  
CODE-VAR

|               | Banana | Chickpea | Garlic | Groundnut | HYV Aus | HYV Boro | HYV T. Aman | HYV Wheat (Tossa) | Jute  | Lentil | Local Aus | Local B. Aman | Local Boro | Local T. Aman | Maize | Mungbeen | Mustard | Onion | Potato | Sesame | Sugarcane |
|---------------|--------|----------|--------|-----------|---------|----------|-------------|-------------------|-------|--------|-----------|---------------|------------|---------------|-------|----------|---------|-------|--------|--------|-----------|
|               | YIELD  | YIELD    | YIELD  | YIELD     | YIELD   | YIELD    | YIELD       | YIELD             | YIELD | YIELD  | YIELD     | YIELD         | YIELD      | YIELD         | YIELD | YIELD    | YIELD   | YIELD | YIELD  | YIELD  | YIELD     |
| Rangamati     |        |          |        |           |         |          |             |                   |       |        |           |               |            |               |       |          |         |       |        |        |           |
| Sadar         |        | 700      |        | 1700      | 2080    | 3250     | 2450        |                   |       | 800    | 1000      | 1810          |            |               | 1860  | 700      | 960     |       | 10350  | 600    | 40000     |
| Sakhipur      | 14000  |          |        |           | 2030    | 4800     | 4100        | 2250              | 8200  | 950    | 1750      |               | 2100       | 2200          |       |          | 1120    |       | 17500  |        |           |
| Sariakandi    |        | 1480     | 2680   | 1900      | 1560    | 4560     | 2500        | 2240              | 2500  | 980    |           |               | 2750       | 1950          |       |          | 890     | 3500  | 13800  | 920    | 60000     |
| Savar         |        |          |        | 2000      | 2250    | 5000     | 3700        | 2500              | 2500  | 1200   | 1300      | 1800          |            |               |       |          | 950     |       | 18500  |        |           |
| Shahrasti     |        |          | 2500   | 1500      | 2200    | 3500     | 2260        | 1350              | 3570  | 500    | 1500      | 950           | 1800       | 1650          | 4000  | 350      | 650     | 3500  | 10000  |        | 40000     |
| Shibganj      | 35000  |          | 3100   |           | 2490    | 4740     | 3550        | 2890              | 3440  |        |           |               |            | 2370          |       |          | 930     | 3250  | 14370  |        |           |
| Shibpur       |        | 1500     | 2800   | 1650      | 2150    | 4790     | 3270        | 2400              | 2850  | 1000   | 1840      | 1350          | 2000       | 1500          | 5000  | 950      | 880     | 3200  | 14500  |        | 40000     |
| Sitakunda     |        | 1000     |        | 2000      | 2170    | 3530     | 2540        | 2700              |       | 1000   | 1170      |               |            | 1650          | 4500  | 1500     | 780     |       | 14000  |        | 45000     |
| Sonargaon     |        | 800      |        | 1900      | 2450    | 3850     | 3200        | 3400              | 8650  | 1000   | 2100      | 2150          | 2500       | 2680          |       | 700      | 1000    |       | 12000  |        |           |
| Tangail Sadar |        |          |        | 2000      | 2950    | 5350     | 4150        | 2320              | 9000  | 820    | 1950      |               | 3150       | 2350          |       |          | 750     |       | 17200  |        |           |
| Trisal        |        |          |        | 1700      | 2150    | 5100     | 4200        | 2230              | 8000  | 800    | 1800      |               | 3850       | 3400          |       |          | 920     |       | 15000  |        |           |



| DISTRICT NAME | THANA NAME        | Banana | Chickpea | Garlic | Groundnut | Hybrid Boro | HYV Aus | HYV Boro | HYV T. Aman | HYV Wheat | Julis (Deshi) | Lenfil | Local Aus | Local B. Aman |
|---------------|-------------------|--------|----------|--------|-----------|-------------|---------|----------|-------------|-----------|---------------|--------|-----------|---------------|
| BARISAL       | AGAILHARA         | 15496  | 1236     |        | 1202      |             | 3174    | 5975     | 3361        | 1979      | 1568          | 756    | 1867      | 2090          |
| BARISAL       | BARISAL SADAR     |        | 1382     |        | 1345      | 6796        | 3361    | 6124     | 4443        | 2427      | 2166          | 896    | 2166      | 2427          |
| BARISAL       | GAURNADI          | 17550  | 1344     |        | 1494      |             | 3772    | 5975     | 4294        | 2315      | 2166          | 859    | 2241      | 2539          |
| BARISAL       | MEHENDIGONJ       | 17923  | 1345     |        | 1345      | 6835        | 3510    | 6273     | 4107        | 2390      |               | 822    | 2315      | 2539          |
| BHOLA         | BHOLA SADAR       | 20761  |          | 3883   | 1643      |             | 3547    | 6275     | 4630        | 2539      |               | 971    | 2315      |               |
| BHOLA         | BURHANUDDIN       | 19865  | 1195     |        | 1419      | 6721        | 3660    | 6050     | 3958        | 2614      |               | 822    | 2315      |               |
| COX'S BAZAR   | COX'S BAZAR SADAR | 19000  |          |        | 1800      |             | 3750    | 5125     | 4150        |           |               |        |           |               |
| DHAKA         | KERANIGANJ        |        | 1120     | 5863   | 1680      |             | 3585    | 5750     | 3883        | 2016      | 1792          | 971    | 2016      | 2091          |
| DINAJPUR      | BIRAL             | 22106  |          | 4668   |           |             | 4294    | 5825     | 4481        | 2614      | 2016          | 784    | 2240      |               |
| DINAJPUR      | BOCHAGANJ         | 22031  | 1195     | 6721   |           | 6647        | 4257    | 5900     | 3807        | 2390      | 2091          | 822    |           |               |
| DINAJPUR      | CHIRIBANDAR       | 18670  | 1195     | 4854   |           |             | 3470    | 5675     | 4406        | 2390      | 1942          | 746    |           |               |
| DINAJPUR      | DINAJPUR SADAR    | 19417  | 1195     | 5788   |           | 7842        | 3921    | 5601     | 4182        | 2128      | 1904          | 447    | 2091      |               |
| DINAJPUR      | KAHAROLE          | 20537  | 1317     | 5600   |           |             | 3660    | 5526     | 3734        | 1867      | 1942          | 822    | 2128      |               |
| GAIBANDHA     | GAIBANDHA SADAR   |        | 1083     |        | 1270      |             | 3062    | 5041     | 3174        | 2427      | 1867          | 934    | 1942      |               |
| GAIBANDHA     | GOBINDAGANJ       |        |          |        |           |             | 3548    | 4817     | 3174        | 1867      | 1867          |        | 2166      |               |
| GAIBANDHA     | PALASHBARI        | 19347  |          |        |           | 7356        | 3785    | 5642     | 3698        | 2675      | 2076          |        |           |               |
| HABIGANJ      | BANIACHONG        |        |          |        |           |             | 4480    | 5704     | 4107        | 2636      | 2315          |        | 2054      | 1792          |
| HABIGANJ      | HABIGANJ SADAR    | 17076  |          |        | 1456      |             | 3782    | 5365     | 4126        | 2650      | 1926          | 920    | 2012      | 1980          |
| HABIGANJ      | MADHABPUR         | 16756  | 930      |        | 1305      | 6533        | 3508    | 5850     | 3748        | 2578      | 1972          | 853    | 2052      | 1890          |
| HABIGANJ      | CHAR RAJBUR       | 17780  | 934      |        | 940       |             | 3734    | 5040     | 3361        | 2465      | 1755          | 747    | 1923      |               |
| KURIGRAM      | NAGESHWARI        | 21500  | 920      |        | 934       |             | 3361    | 5041     | 3347        | 1867      | 1618          | 746    | 1906      |               |
| KURIGRAM      | ADITMARI          | 19790  | 1419     | 5825   | 1083      |             | 3361    | 5153     | 3473        | 2166      | 1793          | 747    | 2091      |               |
| LALMONIRHAT   | KALUGANJ          | 19865  | 1494     | 5863   | 934       |             | 3921    | 5190     | 3286        | 1867      | 1680          | 710    | 2166      |               |
| LALMONIRHAT   | LALMONIRHAT SADAR | 17550  | 1344     | 5788   | 1382      |             | 3659    | 5078     | 3435        | 2390      | 1606          | 822    | 2166      |               |
| LALMONIRHAT   | DAULATPUR         | 19790  | 1195     |        | 1307      |             |         | 5900     |             | 2315      | 2091          | 784    | 2016      | 2054          |
| MANIKGANJ     | MANIKGANJ SADAR   | 16990  | 1008     |        | 1456      |             | 2622    | 6274     | 3660        | 2353      | 2016          | 672    | 1792      | 1942          |
| MANIKGANJ     | SATURIA           |        | 1083     |        | 1419      | 7095        | 3585    | 6124     | 3585        | 2166      | 2278          | 747    | 1793      | 1792          |
| MANIKGANJ     | SHINGAIR          |        | 971      |        |           |             | 3361    | 5452     | 3170        | 2240      | 2016          | 822    | 1755      | 1568          |
| MOULBIBAZAR   | RAJNAGAR          | 16069  | 932      |        | 1260      |             | 3585    | 4406     | 3473        | 2295      |               | 858    | 1904      | 1792          |
| NAOAGANJ      | MANDA             |        | 1121     | 5975   |           |             | 3510    | 5228     | 4107        | 2054      | 1867          | 859    | 2240      |               |
| NAOAGANJ      | NAOAGANJ SADAR    | 19230  | 1195     | 5663   |           |             | 3510    | 5825     | 3921        | 2987      | 2315          | 672    | 2203      |               |
| NAOAGANJ      | PORSHA            |        | 971      | 5414   |           |             | 2764    | 5040     | 3585        | 2240      | 1795          |        |           |               |
| NATORE        | NATORE SADAR      |        |          |        | 1206      | 6422        | 4106    | 5601     | 3760        | 2316      | 1830          | 834    | 2115      | 1755          |
| NILPHAMARI    | KISHOREGANJ       | 19790  | 1120     | 5600   |           | 7842        | 3360    | 5600     | 3547        | 2315      | 1792          | 784    | 2128      | 2240          |
| NILPHAMARI    | SAIDPUR           |        | 1120     |        |           | 5975        | 3734    | 5041     | 4114        | 2600      | 1196          | 1160   |           | 1695          |
| NILPHAMARI    | ATWARI            | 16430  | 1120     |        | 1158      |             | 4294    | 5601     | 3921        | 2614      | 1680          | 672    |           |               |
| PANCHAGARH    | BODA              | 16550  | 982      | 4975   | 1195      | 6958        | 3809    | 5341     | 3964        | 2532      | 1670          | 742    | 1755      |               |
| PANCHAGARH    | DEBIGANJ          | 18670  | 1270     |        | 1120      |             | 3547    | 5788     | 3361        | 2240      | 1680          | 747    | 2166      |               |
| PANCHAGARH    | CHARGHAT          | 19417  | 1120     |        | 1643      |             | 3323    | 5340     | 3622        | 2390      | 2054          | 822    | 2240      | 2240          |
| RAJSHAHI      | GODAGARI          | 19417  | 971      | 5601   | 1419      |             | 3398    | 5153     | 3659        | 2166      | 1867          | 675    | 2166      | 2465          |
| RAJSHAHI      | MOHANPUR          | 19417  | 1157     |        |           |             | 3435    | 5153     | 3547        | 2091      | 1867          | 752    | 2128      | 2352          |
| RAJSHAHI      | MITHAPUKUR        | 21657  | 1307     |        | 1045      |             | 3324    | 5526     | 3100        | 2054      | 1643          | 860    | 1942      |               |
| RANGPUR       | PIRGACHHA         | 22105  | 1120     |        |           |             | 3435    | 5228     | 3361        | 1867      | 1606          | 896    | 1792      |               |
| RANGPUR       | BALAGANJ          | 22105  |          |        |           |             | 3884    | 5788     | 2734        | 2240      |               |        | 1990      | 2390          |
| SYLHET        | BISHWANATH        | 18505  |          |        |           |             | 3628    | 4783     |             | 2826      | 2736          |        | 2096      | 1630          |
| SYLHET        | BALIADANGI        | 16177  | 1158     | 5897   |           |             | 4182    | 5040     | 3659        | 2427      | 1606          | 860    |           |               |
| THAKURGAON    | HARIPUR           | 18558  | 920      |        |           | 7095        | 4108    | 5601     | 3547        | 2318      | 1545          | 846    |           |               |
| THAKURGAON    | RANSANKAIL        | 19604  | 1195     |        |           |             | 4033    | 5414     | 3435        | 2427      | 1568          | 784    |           |               |
| THAKURGAON    | THAKURGAON SADAR  | 17923  | 1120     |        | 1307      | 6610        | 4294    | 5414     | 3360        | 2365      | 2240          | 822    |           |               |
| THAKURGAON    |                   | 18985  | 1149     | 5473   | 1313      | 6909        | 3646    | 5503     | 3714        | 2377      | 1884          | 804    | 2063      | 2060          |



| DISTRICT NAME | THANA NAME        | Local Boro | Local T. Aman | Maize | Mungbean | Mustard | Onion | Potato | Sesame | Sugarcane |
|---------------|-------------------|------------|---------------|-------|----------|---------|-------|--------|--------|-----------|
| BARISAL       | AGAILHARA         | 2240       | 2913          | 2875  | 721      | 790     |       | 16277  |        |           |
| BARISAL       | BARISAL SADAR     | 2577       | 3025          | 2370  | 896      | 896     |       | 17850  |        |           |
| BARISAL       | SAURNADI          | 2465       | 3020          | 3249  | 747      | 896     |       | 19118  |        |           |
| BARISAL       | MEHENDIGUNJ       | 2315       | 2689          | 2913  | 859      | 859     |       | 18595  |        | 60678     |
| BHOLA         | BHOLA SADAR       | 2577       | 2913          |       | 1046     | 771     | 5676  | 19342  |        | 60938     |
| BHOLA         | BURHANUDDIN       | 2278       | 2540          | 3660  | 747      | 771     | 5452  | 18857  |        |           |
| COX'S BAZAR   | COX'S BAZAR SADAR |            |               | 2460  |          | 1200    |       | 14820  |        | 50000     |
| DHAKA         | HERANIGANJ        | 2129       | 2539          | 4630  | 996      | 1008    | 7655  | 18521  |        |           |
| DINAJPUR      | BIRAL             |            | 2838          |       | 747      | 1046    | 8028  | 18043  |        | 55338     |
| DINAJPUR      | BOCHAGANJ         |            | 1942          | 4236  |          | 971     | 9522  | 18371  |        | 54598     |
| DINAJPUR      | CHIRIBANDAR       |            | 2539          |       | 710      | 970     | 7990  | 19416  | 784    | 56010     |
| DINAJPUR      | DINAJPUR SADAR    |            | 2091          | 4705  | 784      | 747     | 9634  | 18521  |        |           |
| DINAJPUR      | KAHAROLE          |            | 2166          | 4526  |          | 1046    | 9335  | 16803  |        | 64600     |
| GAIBANDHA     | GAIBANDHA SADAR   | 1867       | 1867          | 3510  |          | 934     |       | 15870  |        | 53210     |
| GAIBANDHA     | GOBINDAGANJ       | 2054       | 2224          | 3361  |          | 1120    | 8515  | 18670  |        | 65345     |
| GAIBANDHA     | PALASHBARI        | 2166       | 1927          | 3809  |          | 1132    |       | 19043  |        | 65680     |
| HABIGANJ      | BANIACHONG        | 3048       | 3025          |       |          | 1160    |       | 18745  |        |           |
| HABIGANJ      | HABIGANJ SADAR    | 2380       | 2315          | 3540  | 716      | 998     |       | 20250  |        | 60032     |
| HABIGANJ      | MADHABPUR         | 2524       | 2442          |       | 736      | 887     |       | 19426  | 640    |           |
| KURIGRAM      | CHAR RAJBUR       | 1494       | 2054          |       |          | 1046    | 7842  | 18446  | 747    | 52436     |
| KURIGRAM      | NAGESHWAR         | 1867       | 2241          | 2240  | 722      | 905     |       | 15803  | 704    | 54673     |
| LALMONIRHAT   | ADIMARI           | 2017       | 2539          | 4406  | 635      | 934     | 9082  | 16878  | 710    | 64599     |
| LALMONIRHAT   | KAUGANJ           | 2054       | 2241          | 2241  | 474      | 971     | 9455  | 17065  | 747    | 64673     |
| LALMONIRHAT   | LALMONIRHAT SADAR | 2016       | 2166          | 3734  | 710      | 934     | 8738  | 18483  | 710    | 61424     |
| MANIKGANJ     | DAULATPUR         | 2315       |               |       | 747      | 896     |       | 16803  | 859    | 63478     |
| MANIKGANJ     | MANIKGANJ SADAR   | 2390       | 2315          | 3647  | 635      | 934     |       | 18446  | 672    | 62731     |
| MANIKGANJ     | SATURIA           | 2539       | 2614          | 3983  |          | 971     |       | 18446  | 672    | 62358     |
| MANIKGANJ     | SHINGAIR          | 2091       | 2166          | 4020  | 747      | 896     |       | 16280  |        | 56533     |
| MOULBIBAZAR   | RAJNAGAR          | 2241       | 2278          | 4182  | 696      | 1008    |       | 16251  |        |           |
| NAOGAON       | MANDA             | 2054       | 2801          | 4556  | 897      | 859     | 9709  | 13443  | 785    | 56010     |
| NAOGAON       | NAOGAON SADAR     | 2427       | 2315          |       | 710      | 1046    | 9190  | 18484  | 785    | 65046     |
| NAOGAON       | POSHA             |            | 3062          |       |          | 934     | 8082  | 17485  |        |           |
| NATORE        | NATORE SADAR      | 2540       | 2278          | 4182  | 725      | 860     | 8738  | 17550  | 822    | 61462     |
| NILPHAMARI    | KISHOREGANJ       | 1867       | 2614          | 3621  |          | 746     | 5788  | 14487  |        | 65345     |
| NILPHAMARI    | SAIDPUR           |            | 1860          | 3865  |          | 970     | 8450  | 18417  |        | 65900     |
| PANCHAGARH    | ATWARI            | 1912       | 1680          | 3100  | 860      | 860     |       | 17662  | 822    | 62297     |
| PANCHAGARH    | BCDA              | 2154       | 1837          | 3660  | 722      | 765     | 7953  | 17550  | 860    |           |
| PANCHAGARH    | DEBIGANJ          | 1867       | 2016          | 4332  | 672      | 934     |       | 17737  | 934    | 67212     |
| RAJSHAHI      | CHARGHAT          |            | 2763          | 4593  | 672      | 821     |       | 19342  | 747    | 64598     |
| RAJSHAHI      | GODAGARI          | 2577       | 2838          | 3622  | 635      | 1046    | 9708  | 17160  | 635    | 63478     |
| RAJSHAHI      | MOHANPUR          | 2688       | 2838          | 4294  |          | 975     | 9895  | 19118  | 728    | 57578     |
| RANGPUR       | MITHAPUR          | 2091       | 1942          | 4294  | 747      | 1008    |       | 16990  | 896    | 64598     |
| RANGPUR       | PIRGACHHA         | 1980       | 1718          |       |          | 934     | 7991  | 17736  | 934    |           |
| SYLHET        | BALAGANJ          | 2240       | 2240          |       |          | 1120    |       | 17923  |        |           |
| SYLHET        | BISHWANATH        | 2184       | 1894          |       |          |         |       | 20490  |        |           |
| THAKURGAON    | BALIADANGI        |            | 1606          | 3547  | 747      | 860     | 7954  | 16430  |        | 52665     |
| THAKURGAON    | HARIPUR           |            | 2427          | 4070  | 714      | 1195    | 8620  | 19225  | 710    | 69535     |
| THAKURGAON    | RANISANKAIL       |            | 2315          | 4302  | 747      | 971     | 7841  | 16056  |        | 59744     |
| THAKURGAON    | THAKURGAON SADAR  |            | 1867          | 4295  | 784      | 1120    | 8476  | 16990  | 822    |           |

2228 2352 3747 745 961 8271 17749 731 61023



## Yields of Different crops (Kg/Ha)-DU

| DIST-NAME       | THANA-NAME         | Garlic | Groundnut | HYV Aus | HYV Boro | HYV T <sub>2</sub> Aman | HYV Wheat | Jute (Deshi) | Jute (Tossa) | Lentil | Local Aus | Local B <sub>2</sub> Aman | Local Boro |
|-----------------|--------------------|--------|-----------|---------|----------|-------------------------|-----------|--------------|--------------|--------|-----------|---------------------------|------------|
| Bagerhat        | Bagerhat Sadar     |        |           | 2775    | 3338     | 2400                    | 2325      | 1388         |              |        | 2325      |                           | 1500       |
| Bagerhat        | Mollahat           |        |           | 2775    |          | 3338                    |           |              |              |        | 2588      |                           |            |
| Bagerhat        | Rampal             |        |           |         | 4088     | 3338                    |           |              |              |        |           |                           | 2213       |
| Bagerhat        | Sarakshola         |        |           | 2775    | 3713     | 3338                    |           | 1500         |              |        | 2588      | 1313                      | 1650       |
| Brahmanbaria    | Akhaura            |        |           | 2588    | 4800     | 2325                    | 1675      |              |              | 638    | 1313      | 1500                      | 1125       |
| Brahmanbaria    | Nasirabad          |        |           |         | 2400     | 2213                    | 1600      |              |              |        |           | 1500                      | 938        |
| Brahmanbaria    | Sharail            |        |           | 3150    | 4800     |                         | 1575      |              | 1200         | 638    | 1500      | 1313                      | 1763       |
| Chapainawabganj | Nachol             |        |           | 3900    | 6100     | 4088                    | 3338      |              |              |        |           |                           |            |
| Chapainawabganj | Nawabganj          |        |           | 2963    | 6100     | 3225                    | 2025      | 1838         |              |        | 1838      |                           |            |
| Chapainawabganj | Shibganj           | 3338   |           | 3225    | 4650     | 3600                    | 2775      |              |              | 825    | 1950      | 1388                      |            |
| Comilla         | Barura             | 2325   |           | 1388    | 3713     | 2025                    | 1675      | 2025         |              |        | 750       | 1388                      |            |
| Comilla         | Charadina          |        |           | 2213    | 3713     | 2775                    | 1763      |              |              | 938    | 1500      | 938                       |            |
| Comilla         | Comilla Sadar      | 2325   |           | 1575    | 4163     | 2775                    | 2400      |              |              | 750    |           | 2025                      |            |
| Comilla         | Daulkandi          |        |           | 3225    | 3900     | 2025                    | 1388      | 1125         |              | 825    | 1200      | 1125                      |            |
| Comilla         | Muradnagar         |        |           | 1313    | 4163     |                         | 1125      | 1838         |              | 1313   | 1388      | 1388                      |            |
| Cox's Bazar     | Ramu               |        |           | 1013    | 3713     | 2775                    |           |              |              |        |           |                           |            |
| Jessore         | Bagherpara         | 3225   |           | 2700    | 4163     | 2963                    | 1838      |              |              |        | 1575      | 1763                      | 1650       |
| Jessore         | Jessore Sadar      |        |           | 2963    | 4463     | 3900                    |           |              |              |        | 2325      |                           |            |
| Jessore         | Keshabpur          |        |           | 3225    | 4650     | 3713                    | 1838      | 1950         |              | 750    | 2213      |                           | 1838       |
| Jhalakathi      | Jhalakathi Sadar   |        |           | 1650    | 3900     | 4088                    |           |              |              |        | 1313      | 2400                      |            |
| Jhalakathi      | Kanthalia          |        |           | 4163    |          | 4163                    |           |              |              | 563    | 1388      |                           |            |
| Jhenaidaha      | Harnakundu         |        |           | 2588    | 3413     | 3525                    | 2213      |              | 2325         | 825    | 1575      | 1763                      |            |
| Jhenaidaha      | Jhenaidaha         |        |           | 2963    | 4988     | 3225                    | 2213      |              | 1950         | 1313   | 1763      |                           |            |
| Jhenaidaha      | Manesha            | 2513   |           | 1763    | 4725     | 2400                    |           |              | 1650         |        | 1575      | 1125                      | 1200       |
| Khulna          | Batlaghata         | 1950   |           | 2775    | 4650     | 2700                    | 2138      |              |              | 750    | 1500      |                           | 1950       |
| Khulna          | Dumuria            | 4550   |           | 2588    | 4650     | 3338                    | 2025      |              |              | 825    | 1838      | 1950                      | 2588       |
| Khulna          | Paikgachha         | 1388   |           |         | 4650     | 4163                    |           |              |              | 825    | 3713      |                           |            |
| Khulna          | Terakhada          |        |           |         | 4163     | 3713                    |           |              |              | 375    | 1388      | 1838                      | 3225       |
| Khulna          | Bheramara          | 3713   |           | 2513    | 3713     | 3338                    | 1650      | 1838         |              | 825    | 1650      | 1500                      |            |
| Khulna          | Daulatpur          |        |           |         | 3713     | 2775                    | 2775      | 2213         |              |        | 2775      | 2213                      | 4163       |
| Khulna          | Kushita Sadar      | 1650   |           | 3713    | 4988     | 3900                    | 2513      | 2213         |              | 1125   | 2213      |                           |            |
| Khulna          | Mirpur             | 3225   |           | 2513    | 4163     | 2325                    | 1500      | 1838         |              | 750    | 1650      |                           |            |
| Moulavibazar    | Kamaliganj         |        |           | 2400    | 3900     | 3225                    |           |              |              |        | 1313      |                           | 2588       |
| Moulavibazar    | Moulavibazar Sadar |        |           | 2213    | 2963     | 2513                    |           |              |              |        | 1125      | 1388                      | 1650       |
| Netrakona       | Barhatta           | 1838   | 1838      | 2588    | 4650     | 3713                    | 2325      | 1950         |              |        | 1650      | 1838                      | 2325       |
| Netrakona       | Durgapur           | 3713   |           | 2963    | 4163     | 3713                    | 2213      | 1650         |              | 638    | 1650      | 2025                      |            |
| Netrakona       | Kendua             |        |           | 2775    | 4650     | 4163                    |           | 1838         |              |        | 1388      | 2325                      | 1950       |
| Netrakona       | Purbadhala         | 1838   |           |         | 3338     | 2325                    | 1838      | 1650         |              | 938    |           |                           | 1838       |
| Pabna           | Bera               | 3225   |           |         | 4650     | 2888                    | 2025      | 1838         |              | 638    | 1500      | 1950                      |            |
| Pabna           | Ishwardi           | 3525   |           | 2213    | 4275     | 2213                    | 2213      | 1838         | 1838         | 638    | 1388      |                           |            |
| Pabna           | Sonitha            | 5100   |           | 2213    | 4800     | 2700                    | 1763      | 1838         | 1838         | 825    | 1313      |                           |            |
| Pabna           | Sujanagar          |        |           |         | 4725     |                         | 2025      | 1650         |              | 750    | 1313      | 1500                      | 1950       |
| Sirajganj       | Beelkuchi          |        |           |         | 4650     | 3150                    | 1650      | 1500         |              | 1125   | 1013      | 938                       | 1388       |
| Sirajganj       | Kazipir            |        | 2025      |         | 4725     | 4350                    | 2213      | 2400         |              | 750    | 1125      | 1763                      | 1388       |
| Sirajganj       | Shahazadpur        |        |           |         | 3150     |                         | 1675      | 1763         |              | 638    | 1125      | 825                       | 2775       |
| Sirajganj       | Ullapara           |        |           | 3788    | 4725     | 2775                    | 2138      | 2025         |              | 825    | 1313      | 825                       | 1650       |
| Sylhet          | Zakiganj           |        |           | 1650    | 2513     | 2400                    |           |              |              |        | 1600      | 1200                      | 1388       |
| Team Average    |                    | 2914   | 1931      | 2605    | 4193     | 3130                    | 2001      | 1793         | 1856         | 808    | 1661      | 1559                      | 1945       |



Yields of Different crops (Kg/Ha)-DU

| DIST-NAME       | THANA-NAME         | Local T. Aman | Mustard | Onion | Potato | Sesame | Sugarcane |
|-----------------|--------------------|---------------|---------|-------|--------|--------|-----------|
| Bagermat        | Bagermat Sadar     | 1500          | 563     |       | 6938   |        | 2775      |
| Bagermat        | Mollahat           | 2513          |         |       |        |        |           |
| Bagermat        | Rambal             | 2400          |         |       | 8325   |        |           |
| Bagermat        | Sarakshola         | 2588          |         |       |        |        |           |
| Brahmanbaria    | Akhaura            | 1650          | 825     |       | 6488   |        |           |
| Brahmanbaria    | Nasiragar          | 1313          | 825     |       | 6038   |        |           |
| Brahmanbaria    | Sharail            | 1313          | 638     |       | 7425   |        |           |
| Chapainawabganj | Nachol             | 2775          | 750     | 7425  | 12038  |        | 5100      |
| Chapainawabganj | Nawabganj          | 1838          |         |       |        |        |           |
| Chapainawabganj | Shibganj           |               | 938     |       |        |        | 5550      |
| Comilla         | Barua              | 1500          | 638     | 2775  | 11588  |        | 4538      |
| Comilla         | Chandina           | 1500          | 938     |       | 12038  |        |           |
| Comilla         | Comilla Sadar      | 2213          |         | 2775  | 11588  |        |           |
| Comilla         | Daudkanal          | 1125          | 750     |       | 11100  |        |           |
| Comilla         | Muraanagar         |               | 1125    | 2775  | 8813   |        |           |
| Cox's Bazar     | Ramu               | 1388          |         | 3713  | 9263   |        | 4650      |
| Jessore         | Bagnerpara         | 2025          | 563     | 5550  | 12038  |        | 4538      |
| Jessore         | Jessore Sadar      | 1650          | 563     | 6300  | 9263   |        | 4163      |
| Jessore         | Keshabpur          | 1950          | 750     |       | 12038  |        | 5738      |
| Jhalakathi      | Jhalakathi Sadar   | 2700          | 563     |       | 8325   |        |           |
| Jhalakathi      | Kanthalia          | 3225          |         |       |        |        |           |
| Jhalakathi      | Hannakundlu        |               | 938     | 3600  | 11100  |        |           |
| Jhalakathi      | Jhalakathi         |               | 825     | 3225  | 12038  |        | 5550      |
| Jhalakathi      | Manesapur          | 1763          | 750     | 3713  | 10200  |        | 6038      |
| Khulna          | Batiaghata         | 1575          | 1200    | 3525  | 11963  |        | 7050      |
| Khulna          | Dumuria            | 2325          | 938     | 938   | 11100  | 825    | 1838      |
| Khulna          | Paikgachha         | 2213          | 1125    | 2025  | 14813  |        |           |
| Khulna          | Terakhada          | 2325          | 450     |       |        | 1313   | 5550      |
| Khulna          | Bheramara          |               | 638     | 3713  | 8325   |        | 5550      |
| Khulna          | Daulatpur          |               | 938     | 5550  | 8325   |        | 5550      |
| Khulna          | Kushitla Sadar     |               | 750     | 6488  | 13913  |        | 6488      |
| Khulna          | Milpur             | 1650          |         | 3713  | 10200  |        | 5550      |
| Moulavibazar    | Kamaliganj         | 2588          |         |       | 4163   |        |           |
| Moulavibazar    | Moulavibazar Sadar | 1388          | 750     |       | 12038  |        |           |
| Netrakona       | Bairhatta          | 2325          | 938     | 2775  | 11100  |        |           |
| Netrakona       | Durgapur           | 2400          | 825     | 6038  | 11588  |        | 4650      |
| Netrakona       | Kendua             | 2775          |         |       | 14813  |        |           |
| Netrakona       | Purbadhala         | 1650          | 750     | 2775  | 10200  |        | 5550      |
| Pabna           | Bera               |               |         | 6300  | 10200  |        | 6488      |
| Pabna           | Ishwardi           | 1650          |         | 4463  | 10200  |        | 6488      |
| Pabna           | Santhia            |               | 638     | 6675  | 12975  |        | 6938      |
| Pabna           | Sujanagar          |               | 638     | 4650  | 9263   |        |           |
| Sirajganj       | Beelkuchi          |               | 938     |       |        |        |           |
| Sirajganj       | Kazir              | 2025          | 938     |       | 7875   |        | 5550      |
| Sirajganj       | Shahazadpur        |               | 1125    | 3713  | 6938   |        |           |
| Sirajganj       | Ullapara           |               | 750     |       | 8325   |        |           |
| Sylhet          | Zakiganj           | 1313          | 938     |       | 12038  |        |           |
| Team Average    |                    | 1974          | 806     | 4208  | 10175  | 1069   | 5299      |

**Proceedings of the Meeting of the PIs of the ARMP funded Socio-Economic data collection Project held on 26 April, 2001 at the GIS Project Office, BARC.**

The meeting was convened by the NPD, GIS Project to discuss and appraise the latest position of socio-economic data gathering and submission by the ARMP/GIS Project. In absence of the Member-Director, AERS Division in the meeting (travelling India on official duty), Mr. Anwar Iqbal chaired the meeting. The meeting was attended by the PIs and the Associate PIs, and CSO of the AERS Division, Socio-Economic Specialist of the GIS Project, System Analyst of the GIS Project and Field Investigators of BAU, DU and BRRI Teams. A list of the participants is enclosed in Annex-1.

- \* The meeting thoroughly discussed the data submission status of each of the team. All the data sets were received by the GIS Project (by the 3<sup>rd</sup> week of April 2001) for computer entries except input-output data sets of the DU Team. The DU Team agreed to submit fresh input-output data sets as earliest as possible. Input-output data submitted by the BAU Team-2 and DU could not be retrieved at the GIS computers.
- \* The System Analyst reported inconformities in some data formats and coding among the Teams which were earlier submitted for scrutiny and computer entry. It was decided that at the end of the meeting-computer data entry personnel of each Team would stay if necessary 2-3 hours at the BARC computer centre to help attain uniformity of data entry and coding system of the submitted data sets. And accordingly, relevant personnel stayed with the System Analyst for couple of hours for the job after the meeting formally ended.
- \* All the PIs assured the project Management that the respective Teams would revise and correct the data-sets in respect of inaccuracies and suspected information indicated earlier by the SES in writing. PIs agreed that they would be obliged to do any correction and revision work if arise in course of data management, use and handling. AERS Division was requested (as the custodian of data sets received from the Survey Teams) to check whether anything is left incomplete or uncorrected as per contract and decisions of the review meetings with the PIs before final project payments are made.
- \* SES would provide comments on input-output data of each Teams by using those data sets before leaving his term of assignment.
- \* The meeting felt that necessary steps be taken by the appropriate authority to complete collection of socio-economic data for the left-out/remaining upazilas to cover the country as a whole for socio-economic information.



### Decisions :

1. As per comments/written reports of the SES and discussion outcome of the present meeting, all the PIs' would modify the datasets including input-output data and submit corrected CD/disk and hardcopies to the GIS project management at the earliest possible time.
2. As per contract Research Project requirement, all the PIs' shall submit detailed draft report (5 copies) of the project activities including the database developed, input-output data and its applications in hardcopy to the AERS Division and to the GIS Project. AERS and GIS will provide comments, if any, for finalization of the report and accordingly final submission by the PIs' in required numbers.
3. Last 10% of the fund will be released on satisfactory production of the report.
4. In future, steps will be taken, depending on the fund availability, by BARC authority to complete data collection of the remaining upazilas.

The chairman ended the meeting with cordial thanks to the participating members and sought future cooperation of the Teams if need be for further modification, correction etc. of the present GIS project work and extended activities in this line in future.

(M. Anwar Iqbal)  
National Project Director  
GIS Project at BARC.

### Copy for information and necessary action :

1. Member-Director (AERS), BARC, Dhaka - for information, follow up and specific actions on the decisions.
2. Director General, BRRI, Joydebpur Gazipur
3. Registrar, BAU, Mymensingh
4. Registrar, Dhaka University, Dhaka
5. .... (All PIS')
6. .... (Meeting attended).

Persons attended :

1. Prof. Md. Abul Bashar, PI  
BAU Team 1 and  
Coordinator, ARMP/GIS Project.
2. Prof. Shamsul Alam  
SES, GIS Project at BARC.
3. Dr. Selina Ahsan  
CSO, AERS Division, BARC.
4. Prof. Fazlul Haq Shah,  
DU Team
5. Dr. M. A. Jabbar, PI  
BRRI Team
6. Mr. Md. Abdul Latif  
Associate P. I. BAU Team
7. Dr. Shaukar K. Raha  
Associate P. I. BAU Team 2
8. Mr. Raihan Sharif  
Field Investigator, BAU Team-2.  
Data Entry Personnel of BRRI  
and DU Teams
9. Mr. Md. Hasan Ali  
System Analyst  
GIS Project at BARC.
10. Mr. Abeed H. Chowdhury  
Senior System Analyst, BARC, Dhaka